

PWMiner Desktop 3.0 User Guide



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1. Introduction

PWMinder is a desktop application that is used to store and manage passwords and other sensitive data in a secure encrypted file. This document explains how to install and use PWMinder 3.0.

1.1. Conventions

The following conventions are used in this User Guide.

Commands, directory and file names are written in mono-spaced font.

Important: notes are written in bold.

Warning: notes are written in bold red.

Note: all Screen Shots in this Guide are taken using the “Nimbus” Look and Feel on Windows 7.



2. System Requirements

2.1. Windows

Operating System:	Windows XP, Windows Vista, Windows 7, Windows 8 and Windows 8.1
Free Disk Space:	5 - 50 MB
System Memory:	1GB or higher (recommended)
Display	1024 x 768 (minimum) 1280 x 1024 or higher (recommended)
Java Runtime Environment:	Oracle's Java 7
PDF Reader to view User Guide	Adobe Reader (recommended)

2.2. Mac OS X

Operating System:	Intel Mac OS X Snow Leopard 10.6.8 or above
Processor:	64 bit, Intel based
Free Disk Space:	5 - 50 MB
System Memory:	1 GB (mimimum)
Display	1024 x 768 (minimum), 1280 x 1024 or higher (recommended)
Java Runtime Environment:	Apple's Java 6 (recommended) or Oracle's Java 7 (on Mac OS/X 10.7 and above)
PDF Reader to view User Guide	Adobe Reader (recommended)



3. Installation

3.1. Windows

Java Runtime Environment:

The most up to date Java Runtime Environment (JRE) for Windows, can be downloaded and installed from <http://www.java.com>.

Installation Instructions:

IMPORTANT: PWMinder must be installed by a user with Administrative privileges.

1. Download `PWMinderSetup_3.0.x.x_noJRE.exe`, (or `PWMinderSetup_3.0.x.x_JRE.exe` if you would like to include a bundled JRE).
2. Run the setup file (by double-clicking it).
3. Click *Allow* if prompted whether to allow the installer to run.
4. Follow the instructions in the installation wizard.

NOTE: PWMinder will be installed for all users.

3.2. Mac OS X

Java Runtime Environment:

PWMinder requires Java SE 6 (recommended) or Java SE 7 on Mac OS X.

Mac OS X 10.6 (10.6.8) Snow Leopard

Apple Java 6: Can be downloaded from Apple: <http://support.apple.com/kb/dl1573>

Mac OS X 10.7 (10.7.3) Lion and above

Apple Java 6: Can be downloaded from Apple: <http://support.apple.com/kb/dl1572>

Oracle Java 7: Can be downloaded from Oracle: <http://www.java.com/en/download/manual.jsp>

Installation Instructions:

1. Download `PWMinder3.0.x.x_JRE6.dmg` (or `PWMinder3.0.x.x_JRE7.dmg`)
2. Double-click the .dmg file.
3. Drag the PWMinder icon to the Application Icon

3.3. Upgrading PWMinder Software

To upgrade from a previous version of PWMinder execute the following steps:

1. Uninstall the old version



2. Install the new version of PWMinder (see above)

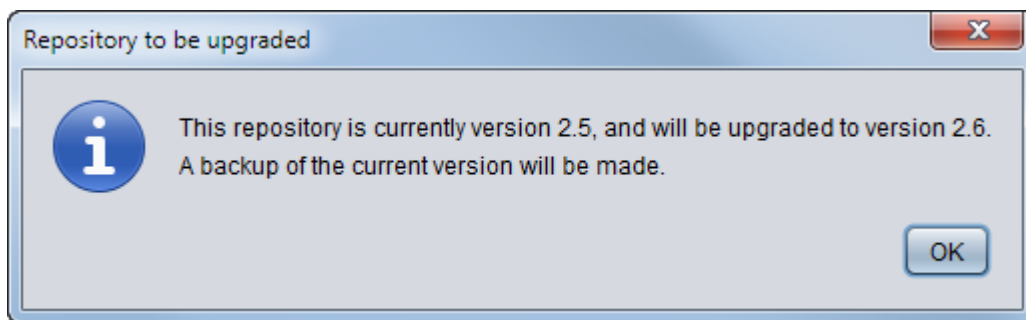
3.4. Upgrading Repository Files

If you are upgrading from an earlier version of PWMinder (version 2.5 and earlier), your password Repository file(s) will need to be upgraded.

Important: For Mac Users, before upgrading, make the Repository file is not locked. If it is locked, please unlock before upgrading it. See [Section 22.2](#) for more information on locked files.

To upgrade an old Repository, execute the following steps:

1. Open the old Repository file using PWMinder 3.0
2. The following message will be displayed:



3. Click OK.
4. After the Repository has been upgraded a confirmation message will be displayed.
5. Click OK.
6. The Repository will now be available for use in PWMinder 3.0

NOTE: The original Repository will have been backed and renamed, but is otherwise unchanged and is available if needed. The original repository will have a name like: `Repository_2.5.pwm.bak`



4. Starting PWMinder

4.1. On Windows

1. Go to Start menu.
2. Go to PWMinder Program Group.
3. Click on PWMinder icon.

4.2. On Mac OS X

1. Go to Applications, in Finder
2. Double-Click on PWMinder.app

4.3. On Mac OS X using Launchpad (OS X 10.7 and higher)

3. Open Launchpad
4. Double-Click on PWMinder Icon

4.4. System Tray (Windows)

PWMinder has the option to be minimized to the System Tray (i.e. It will no longer appear in the Task bar, but a small Icon will remain in the System Tray). PWMinder can be restored by right-clicking on the System Tray icon and selecting *Restore PWMinder*. Other options from the System Tray icon are *Options* and *Exit PWMinder*. The minimizing to System Tray feature can be enabled or disabled in the Options window (see [Section 16.4](#))

4.5. Dock (Mac)

PWMinder can be added to the Dock, by dragging `PWMinder.app` from Finder to the Dock. PWMinder can then be started by clicking on the icon in the Dock.

4.6. Welcome Screen

Normally, when PWMinder starts, it will attempt to re-open the last used Repository file, and prompt for its password. If it is the first time PWMinder has been run, or if it can't find the last used Repository file, PWMinder will display a Welcome screen, which provides several options, to get started:



New	Used to create a New Repository. See Section 6.2
Open	Used to open a Local Repository. See Section 6.3
Open Dropbox	Used to open a Dropbox Repository. See Section 6.4
Integrate	Used to integrate PWMinder with a Dropbox account. See Section 19.1

The Welcome Screen can also be displayed by clicking on the *File->Welcome Screen* menu item, when no Repository file is open.

4.7. Shutting Down

It is important to shut down PWMinder before logging off your computer or before shutting your computer off. If you fail to shut it down properly, the Repository file you were using, may remained locked. To unlock the Repository file see [Section 6.6](#)



5. Uninstall PWMinder

NOTE: Uninstalling PWMinder will not remove any setting, Registration codes or Repository files.

5.1. Windows XP, Vista, Windows 7

IMPORTANT: PWMinder must be uninstalled by a user with Administrative privileges.

1. Go to Start Menu
2. Go to PWMinder Program Group
3. Click on Uninstall.exe

5.2. Windows 8, Windows 8.1

IMPORTANT: PWMinder must be uninstalled by a user with Administrative privileges.

1. Go to Control Panel
2. Select Programs
3. Select Uninstall a program
4. Find PWMinder
5. Click on Uninstall

5.3. Mac OS X (PWMinder Versions 2.6 and older)

1. Go to Applications
2. Open PWMinder Folder
3. Open Uninstall Folder
4. Double-click on Uninstall.jar (or Right-Click and select Run With Java Jar Application)

5.4. Mac OS X (PWMinder Version 3.0)

1. Go to Applications
2. Delete PWMinder.app



6. Repository Management

6.1. General

In PwMinder, a Repository is the central storage place for all of your password records. Each Repository has a name, description and password; and is saved as an encrypted file. You can create as many Password Repositories as needed, e.g. one for home, one for work, or one for each members of the family, etc. Repository files can either be stored locally, or can be stored using Dropbox, allowing you access to you passwords on multiple computers and devices.

6.2. Creating a Repository

To create a new Repository, execute the following steps:

1. Start PwMinder (or close any open Repository)
2. Select *File->New* (alternatively click on the *Create New Repository* icon on the Toolbar)
3. The following window is displayed:

4. Enter a name for the Repository (mandatory)
5. Enter a description for the Repository (optional)



6. Enter a master password from the Repository. Either enter your own password, or click on *Generate...* to have the Password Generator assist you, in creating a secure password (see [Section 10](#) for more information about using the Password Generator)
7. Select whether the Repository File should be stored locally, or on Dropbox (Dropbox must have been integrated for this to work. See [Section 19](#) for instructions on integrating with Dropbox)
8. For Local files, use the default file name and location, or use the *Browse...* button, to browse to a location on the file system, where the Repository file should be saved. Enter a name for the Repository file; the default name is the same as the name for the Repository (it is recommended to use this name).
9. Click OK, to create the Repository.

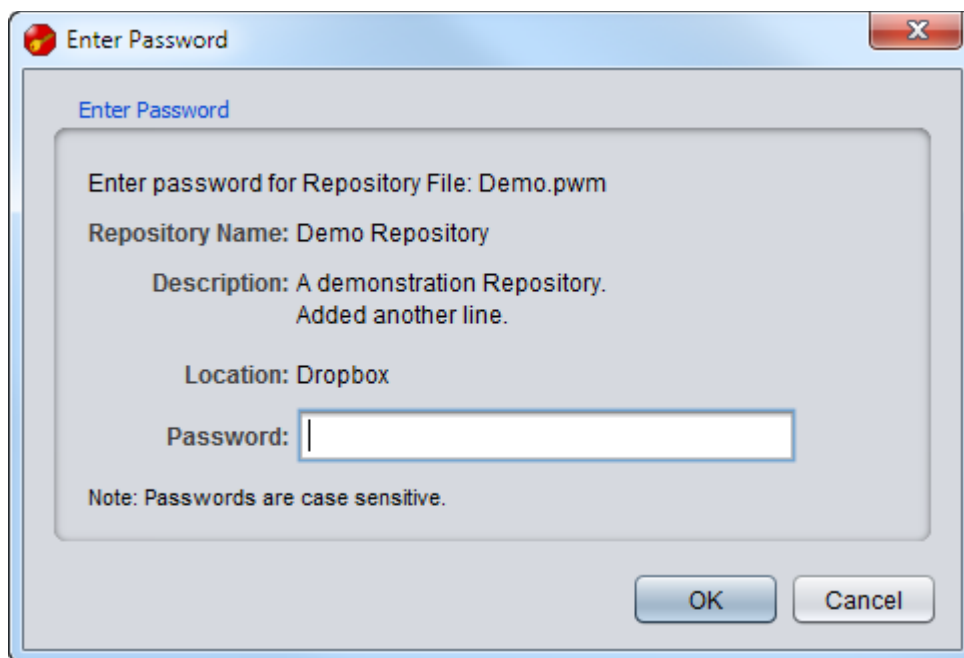
Important: The password you use for the Repository should be as secure as possible since it is the password that will be protecting all of your other passwords. Please use the Password Strength Meter only as a guide to the quality of your password.

Warning: Make sure you remember this master password, since it will be the only way to access the Repository. For security reasons, the password is not stored anywhere and so if it is forgotten, it cannot be recovered!

6.3. Opening a Local Repository

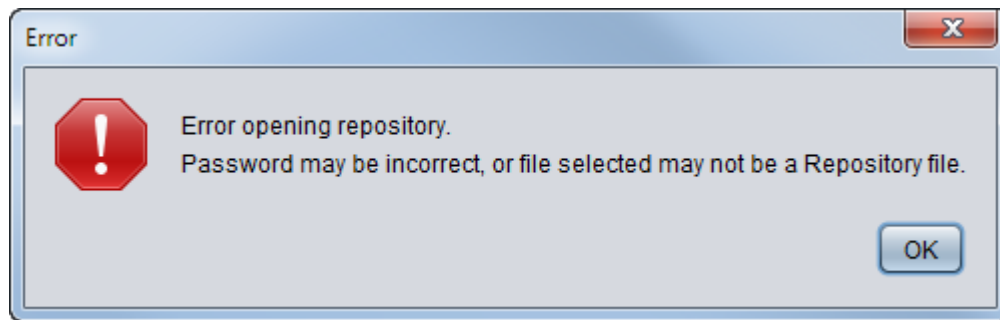
Note: When starting PWMinder, it will automatically attempt to open the last used Repository, by prompting for a password.

1. Start PWMinder application.
2. Make sure no other Repository is open.
3. Select *File->Open Local Repository* (alternatively click on the *Open Repository* icon on the Toolbar).
4. Browse to the Repository file (it will have a `.pwm` extension).
5. Click Open.



6. Enter the password for the Repository (Note: Passwords are case sensitive).
7. Click OK.

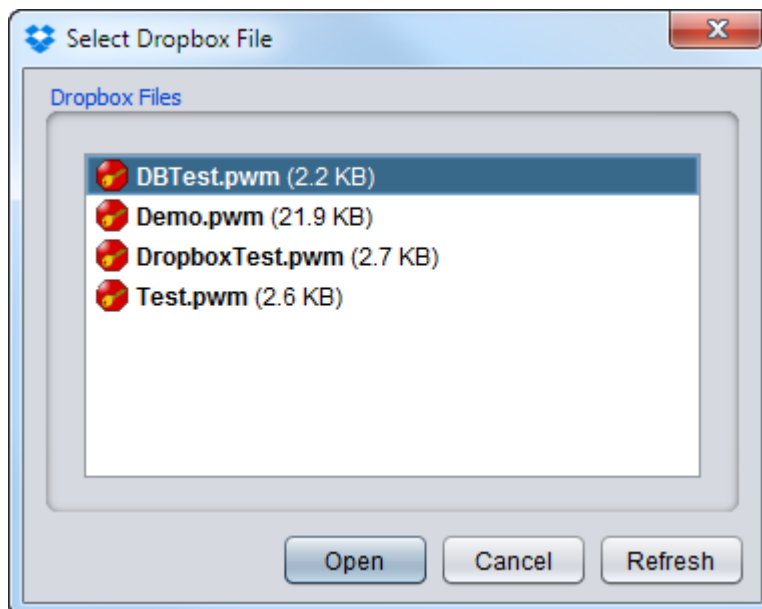
Note: If an incorrect password is entered (or a file, other than a Repository file was selected) the following message will be displayed:



6.4. Opening a Dropbox Repository

Note: Before you can open a Dropbox Repository, Dropbox must be integrated with PWMinder. (See [Section 19](#) for instructions for integrating with Dropbox).

1. Start PWMinder application.
2. Make sure no other Repository is open.
3. Select *File->Open Dropbox Repository* (alternatively click on the *Open Dropbox Repository* icon on the Toolbar).



4. Select the Repository file you wish to open
5. Click Open.
6. Enter the password for the Repository (Note: Passwords are case sensitive).



7. Click OK.

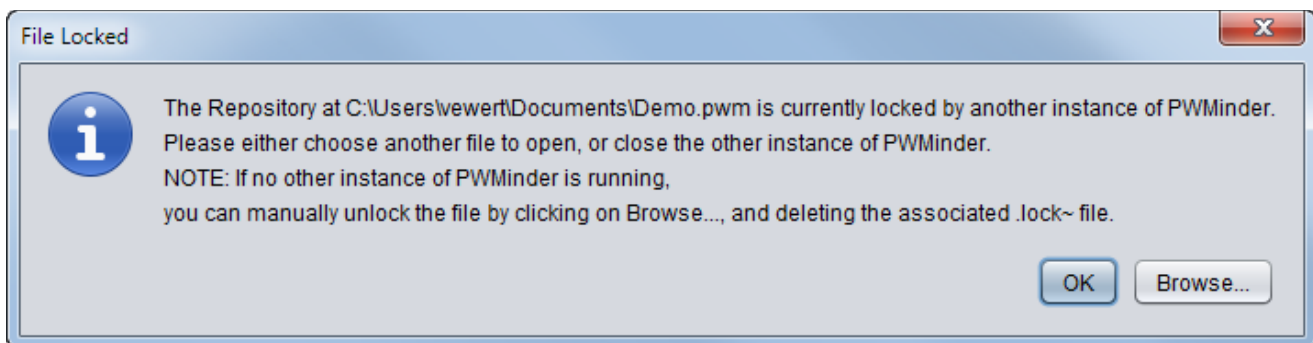
6.5. *Modifying a Repository*

To modify an existing Repository, execute the following steps:

1. Start PWMinder application.
2. Open the Repository to be modified.
3. Select *File->Modify Repository...*
4. Modify the name, description or password, and then click OK to modify the Repository.

6.6. *Repository Locking*

You are allowed to open several instances the PWMinder on your computer so you can have multiple Repository files open at the same time. Each Repository file, however, may only be open in one instance of PWMinder at a time. If you try to open a Repository file, that is already open in another instance the following message will be displayed:



NOTE: If PWMinder does not get shut down properly (for example, the computer gets shut down, without having first, closed PWMinder), the Repository file may remained locked, and you will be unable to open it. To unlock a file, Browse to where the file is saved (hint, you can use the *Browse...* button) and delete the associated lock file. Example if file is `Demo.pwm`, the lock file will be `Demo.pwm.lock~`. After deleting the lock file, you can open the Repository file normally again.

6.7. *Saving a Repository*

The Repository data is automatically saved to the Repository file, whenever a change is made. The following actions trigger the Repository to be saved:

- Repository info is modified
- New Category is added
- Category is modified
- Category is deleted
- New Record is added
- Record is modified
- Record is deleted

NOTE: When a repository is saved, a backup of the original file is created with the extension `.bak`. This can be useful, in case anything happens during the Save process or if you accidentally saved some incorrect data. To revert to the backup copy, either move or delete the original file, and then remove the `.bak` extension of the backup file. If you are using Dropbox, you can also use Dropbox's revert feature to revert to an older version of

the file.

6.8. Saving an existing Repository to a new File

To save a Repository to a new File, execute the following steps:

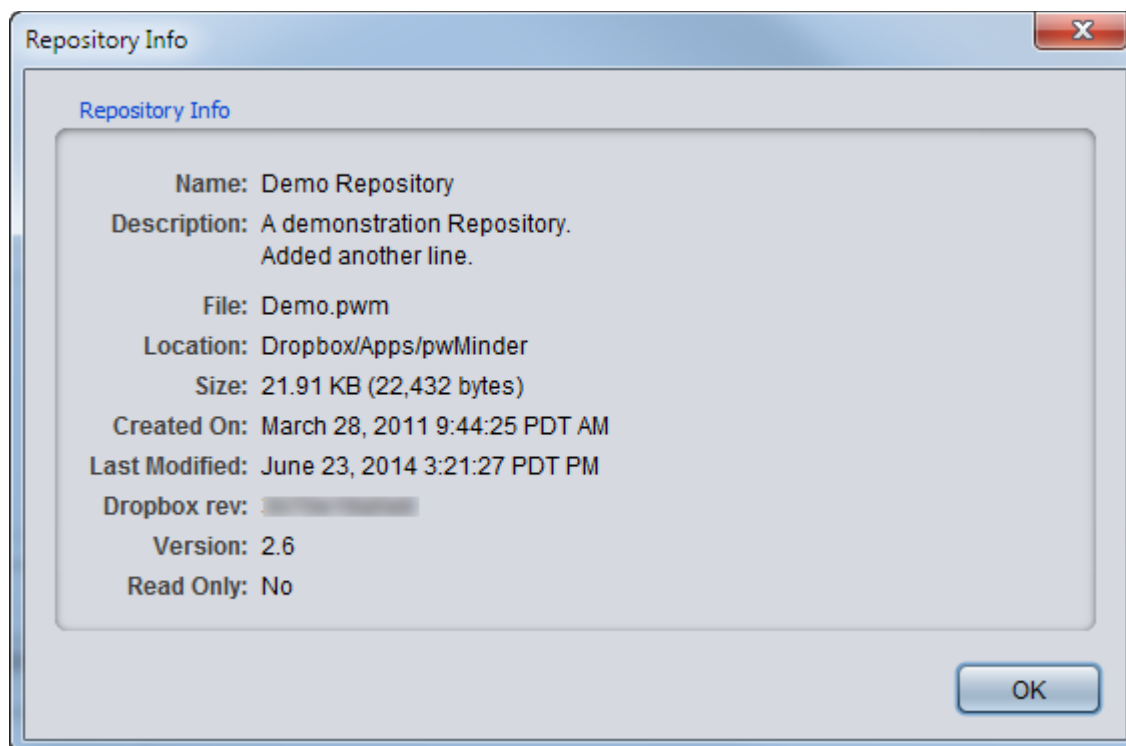
1. Open the Repository.
2. Select *File->Save As...*
3. Browse to a Location on the file system, where the new Repository file should be saved.
4. Enter a new file name for the Repository file.
5. Click Save to save the Repository file.

6.9. Closing a Repository

To close a Repository, select *File->Close*. If any changes have been made to the Repository, a prompt will be given to save the Repository. After a Repository has been closed, the Repository file is set to read-only (i.e. not writable), to guard against accidental modification or deletion outside of PWMinder.

6.10. Repository Info

To display the Repository info, either Right-Click on the Repository, in the Repository Tree and select *Repository Info*, or select *File->Repository Info*. The following information is displayed:



Name: The name of the Repository

Description: The description given to the Repository.

File: The file name of the Repository File.



Location: The full path to the folder of a local Repository file, or the Dropbox path of the Repository file on Dropbox.

Size: The size of the Repository file.

Created On: The date the Repository was initially created.

Last Modified: The date the Repository was last modified and saved.

Dropbox Rev: The Dropbox rev (only shown for Dropbox Repositories).

Version: The version of the Repository. Note: This is the version of the Repository structure, not the data in it, nor the version of the PWMinder software application.

Read Only: Flag for whether the Repository file is Read Only or Writable.

6.11. Re-naming a Repository file.

Since Repository files are just files on the file system, if the Repository file needs to be re-named, use the Operating System to rename it. Alternatively, use Save As, to save it to a different file. For a Dropbox file, use the Dropbox interface (e.g. Dropbox Web Interface) to rename the file.

6.12. Deleting a Repository file.

Since Repositories are just files on the file system, if a Repository is no longer needed, it can simply be deleted. For Dropbox files, use the Dropbox Interface to delete the file.

WARNING: Once a Repository file has been deleted from the file system, all stored passwords will be lost, please be sure the data is no longer needed, or has been backed up, before deleting it.



7. Categories

7.1. General

In PWMinder, Categories are used to categorize Records into logical groups. Each Record belongs to one Category. PWMinder contains the following standard Categories:

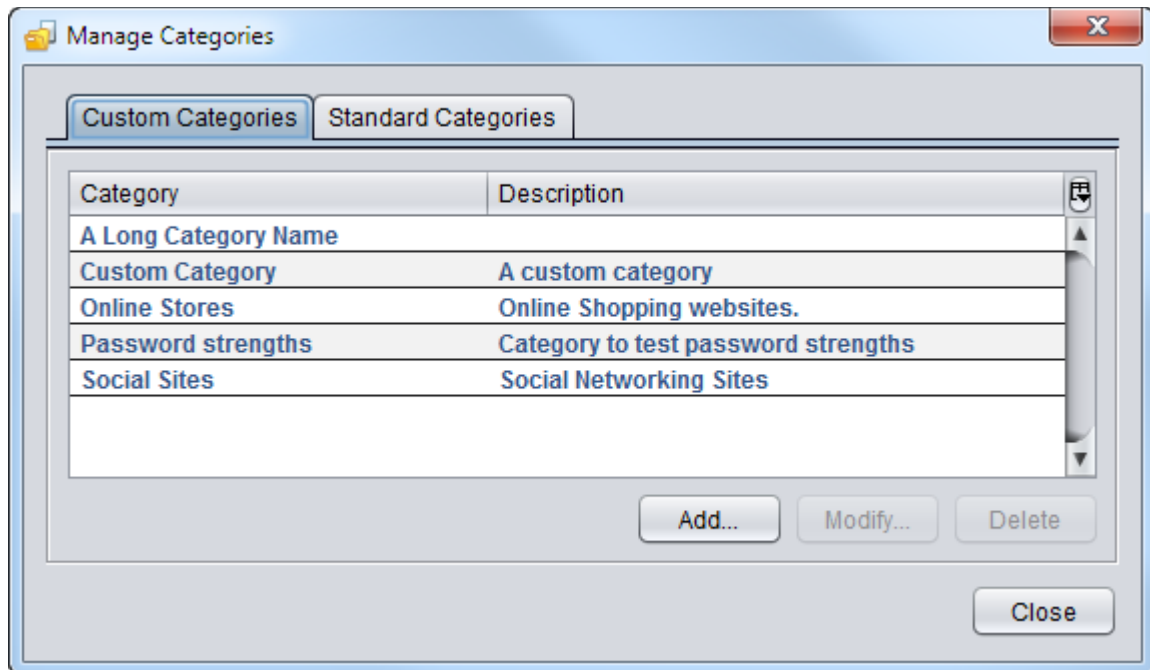
Record Type	Usage
Alarm System	Use this to store passwords and account information for alarm systems.
Bank Account	Use this to store passwords and account information for bank accounts.
Cell Phone	Cell Phone PINs
Computer Account	Using this to store logins and passwords for computer accounts.
Credit Card	Credit Card information.
Email Account	Use this to store user names and passwords for email accounts.
Misc	Use this to store any miscellaneous user names and password.
Software Account	Use this to store user names, password, registration keys, etc. for software.
Web Site	Use this to store logins and passwords for web sites.

7.2. Custom Categories

In addition to the standard Categories listed above, Custom Categories can be created. Please note: any custom categories created will only apply to the Repository to which they are added (i.e. each Repository can have its own custom Categories). In the Repository Tree, Custom Categories will be displayed with blue folders to distinguish them from standard Categories.

7.3. Manage Custom Categories

To manage Custom Categories, select *Categories->Manage Categories* (alternatively, click on the *Manage Categories* icon on the Toolbar) and select the *Custom Categories* tab. The following window is displayed:



This window lists all the Custom Categories, and allows new Categories to be added, or existing Categories to be modified or deleted. See details below for each action.

7.4. Add a new custom Category

To add a new custom Category execute the following steps:

1. From the Manage Custom Categories Window click *Add* (alternatively, click on the *Add Custom Categories* icon on the Toolbar, or select *Categories->Add Category* from the menu bar).
2. The following Window is displayed:



3. Enter a Name for the new Category (mandatory). NOTE: the name may not contain the double-quote (") character, and must be unique.
4. Enter a Description for the new Category (optional). The description will be displayed in the tool tip when the mouse is hovered over the Category in the Repository Tree.
5. Click OK.

7.5. Modify a Custom Category

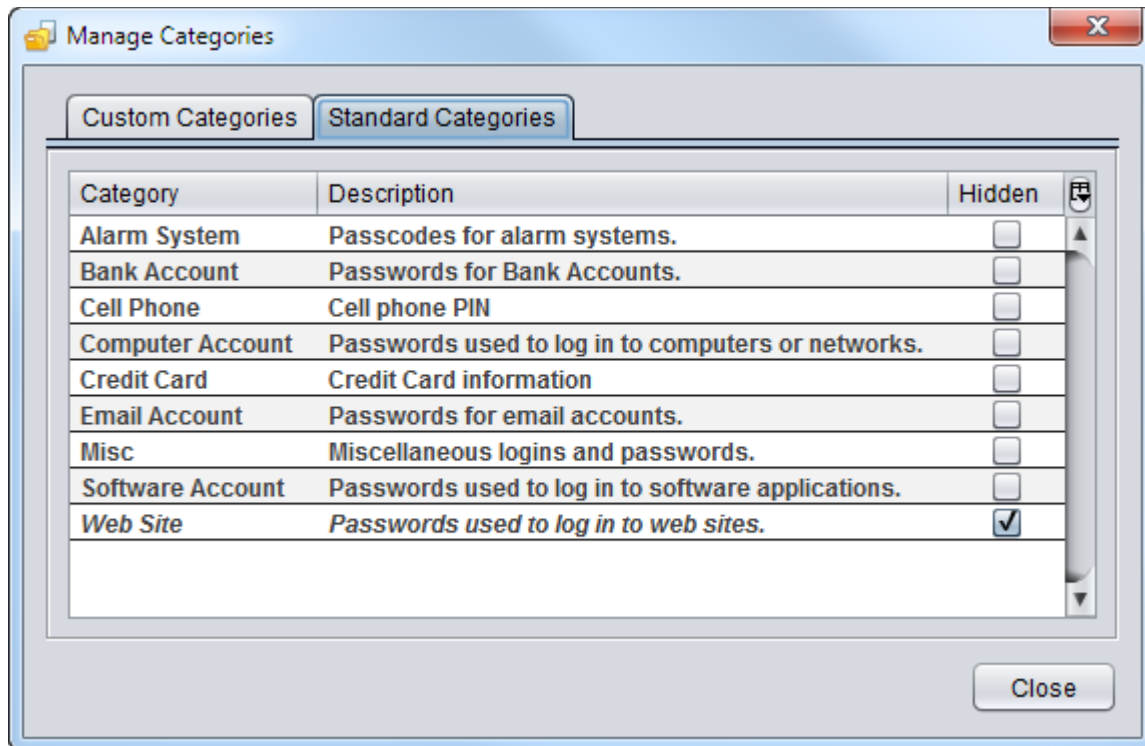
To modify an existing custom Category, click on the Category in the *Manage Categories* Window, and then click *Modify* (alternatively, select the Category in the Repository Tree and then right-click and select: *Modify Category: "XXX"*. Modify either the Name or Description and click OK.

7.6. Delete a Custom Category

To delete an existing custom Category, click on the Category in the Manage Categories tab, and then click *Delete* (alternatively, select the Category in the Repository Tree and then right-click and select: *Delete Category: "XXX"*. Click Yes when prompted to confirm. **NOTE:** You can only delete a Custom Category if it has no Records associated with it.

7.7. Hide a Standard Category

There may be cases where one or more of the Standard Categories provided are not needed and just get in the way. To help with this, Standard Categories can be hidden, so they don't show up in the Repository Tree. To hide a Standard Category select *Categories->Manage Categories* and then select the *Standard Categories* tab:



To hide a Standard Category, click on the *Hidden* check box, next to the Category. **NOTE:** You can only hide a Standard Category, if it has no Records associated with it.

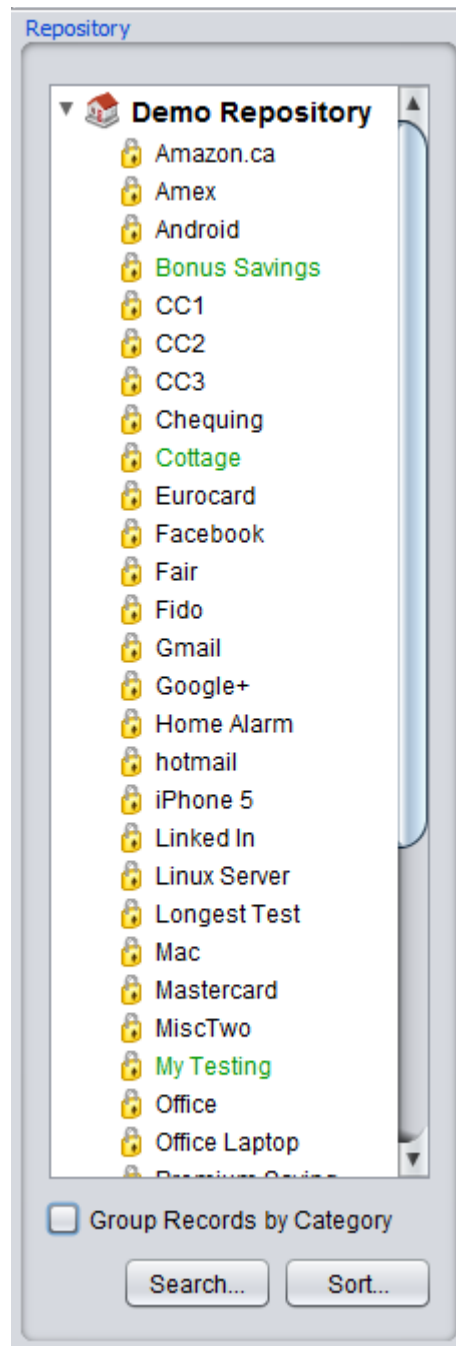
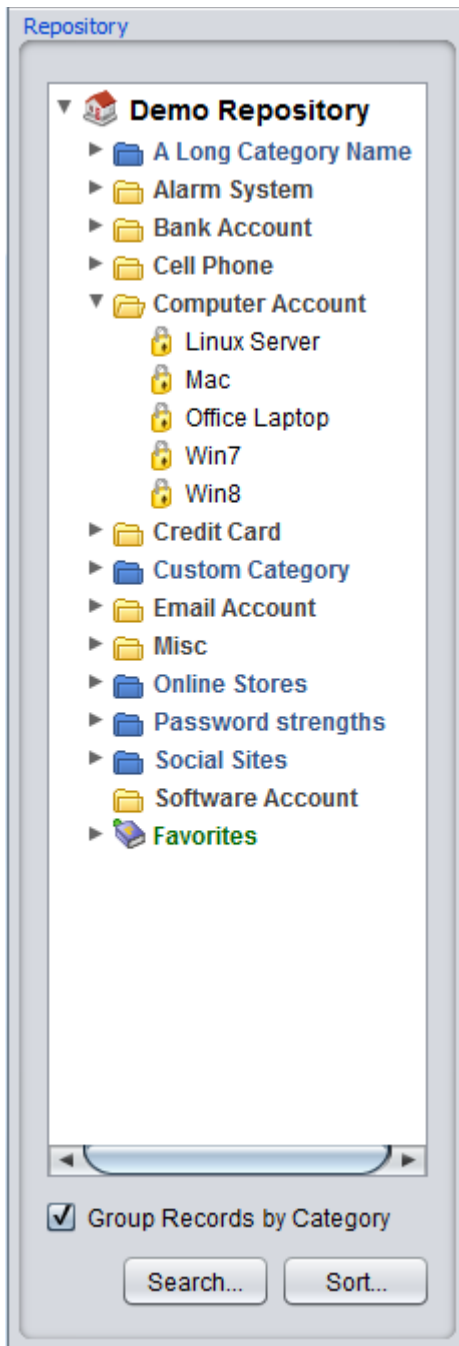
To make the Standard Category visible again, click on the *Hidden* check box again.

7.8. Expanding/Contracting the Repository Tree

The entire Repository Tree can be expanded, by right-clicking on the Repository node and selecting *Expand All*. To collapse the Repository Tree select *Collapse All*.

7.9. Grouping Records by Category

By default, the Repository tree view groups Records by their Category. This can be toggled on and off by clicking on the check-box called: *Group Records by Category*.





8. Records

8.1. General

In PWMinder a Record stores an individual password and all its related information. Records are grouped by Categories and stored in the Repository.

8.2. Adding a new Record

To add a new Record, execute the following steps:

1. Make sure the desired Repository is open.
2. Select *Record->Add* from the menu (alternatively click on the *Add Record* icon on the Toolbar, or enter Alt+A)
3. The following window is displayed:



Add Record [X]

Add New Record

*Name: Category:

Description:

Login:

*Password:

Password Strength:

Account Number:

Website (URL):

Auto-Login Configuration:

eMail:

Notes:

Security Question:

Answer:

Expiry Date: ☐ ☒ No Expiry

4. Enter a Name for the record (mandatory). NOTE: the name may not contain the double-quote (") character, and must be unique.
5. Select a Category for the record.
6. Enter a description (optional). The description is displayed in the tool tip when hovering the mouse over

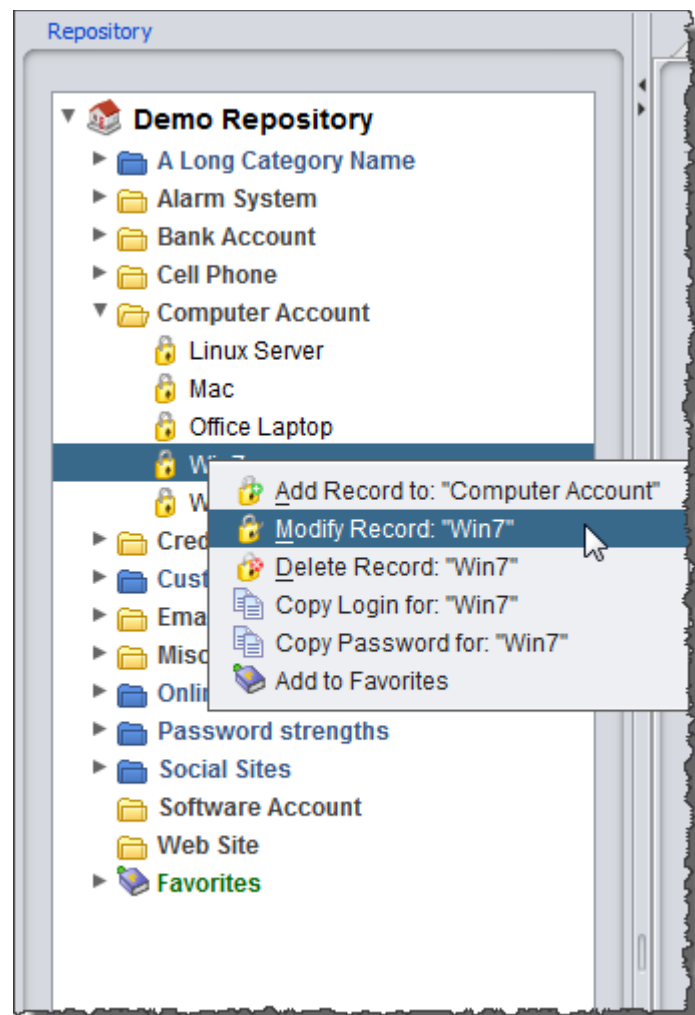


a record in the Repository tree.

7. Enter a Login (e.g. Username) for the record (optional). Previously used Logins can be accessed by either clicking on the down arrow button with the mouse, or by use the down arrow on the keyboard. It is recommended not to use quotations marks “, in logins, since they can lead to unexpected results, when searching.
8. Enter the password for the record. If you already have a password, enter it here; if you want to generate a new secure password click Generate. (see [Section 10](#) for more information about using the Password Generator).
9. Enter an Account Number (optional)
10. Enter a URL (e.g. URL for web sites, or URL of ISP, Software Company, etc.) (optional). NOTE: there is no need to enter the http:// part, this will be added automatically.
11. Enter an email address associated with the record (optional)
12. Enter a security question (optional)
13. Enter the security question answer (mandatory if security question is entered)
14. If you want PWMinder to remind you to change your password, select an Expiry date, by un-checking the Expiry box and then clicking on the calendar button, to select a date.
15. Click OK, to add the new Record.

8.3. Modifying an existing Record

To modify an existing Record, select the Record in the Repository tree, and then select *Record->Modify*, or select the *Modify Record* icon from the Toolbar, or right-click and select: *Modify Record: “XXX”*, or double-click the Record.



Any field can then be edited including the Category.

8.4. Moving a Record to another Category

If a record needs to be changed, to belong to a different Category, the Record can be dragged from one Category to another within the Repository Tree.

8.5. Deleting a Record

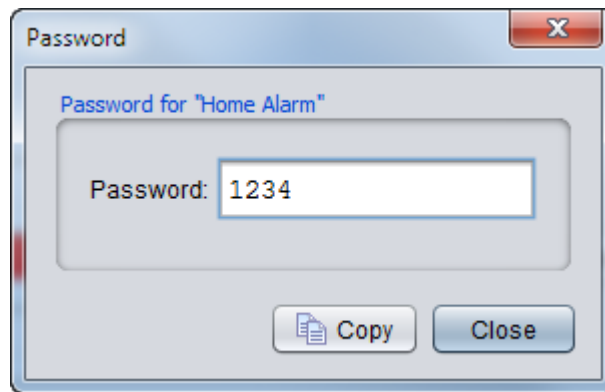
To delete a Record select the Record in the Repository tree, and then select *Record->Delete*, or select the *Delete Record* icon from the Toolbar, or right-click and select: *Delete Record: "XXX"*

WARNING: the Repository file will be saved, right after a Record is deleted and the Record cannot be recovered so be careful when deleting a Record.



8.6. Viewing a Record's Details

To view the contents of a Record, find it in the Repository tree, and click it, or select *Open Record Details*, from the Record's right-click menu. The Record's information is displayed on the right panel. For security reasons, the password is displayed as: *******. To view the password in plain text, click the *Display* button. The following window is displayed:



Click on the *Copy* button, to copy the password to the clipboard, allowing for pasting on to website login form, or other software.

NOTE: If a URL or eMail has been entered, clicking on the field will open up the default browser or email client, respectively.

8.7. Quick Copy of Login and Password

Clicking on the *Copy* button, next to either the Login or Password fields, will copy the value to the clipboard, so it can easily be pasted on to a website Login form, or other application. Alternatively, right-clicking on a Record, in the Repository Tree, and selecting *Copy Login* or *Copy Password*, will copy the Login or Password respectively.

8.8. Password Expiry

If a Record has an expiry date set for it, and the expiry date has passed, the Password Expiry Date is displayed in Red, as a warning.

The actual password, that this Record is for, should be changed, and then the Record should be modified, to make it consistent with the change. The Expiry Date should also be reset to a future date, to set up another reminder. If you no longer want a reminder that the password has expired, the Expiry Date can be removed, by checking the No Expiry check box.

8.9. Recent Records

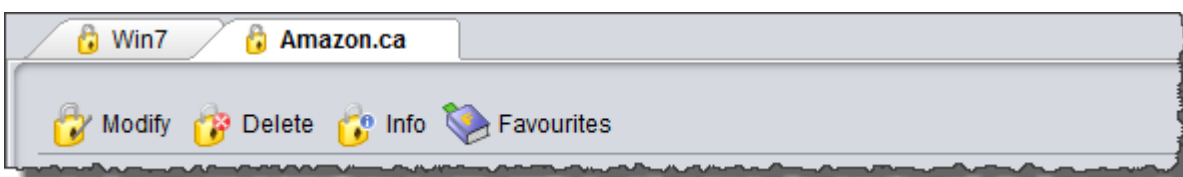
You can access your most recently used Records by selecting *Record->Recent Records*. This will display a list of the most recently used Records, for easy access. To clear this list, select *Records->Recent Records->Clear Records*.

8.10. Record Tabs

Multiple Records can be opened at one time, with each Record being displayed in a separate Tab. This make it easy to access your most often used Records. To close a Tab, hover over the top right corner of the tab, and click on the **X**.

8.11. Record Toolbar

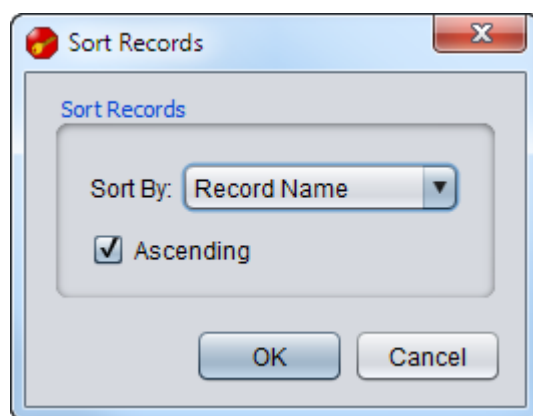
On the Record Details panel, there is a toolbar which allows you to manage the Record:



Modify	Allows you to modify the Record details
Delete	Deletes the Record
Info	Provides some more details about the Record
Favourites	Adds/Removes the Record from Favourites

8.12. Sorting Records

The Records in the Repository tree can either be sorted by Name or by Login. To change the sort, click on the Sort button, below the Repository tree. The following window is displayed:



The Records can be sorted either by Name or Login and either Ascending or Descending. Note: If the Records are grouped (See Record Type), then they will be sorted within the Record Type category.

8.13. Favourites

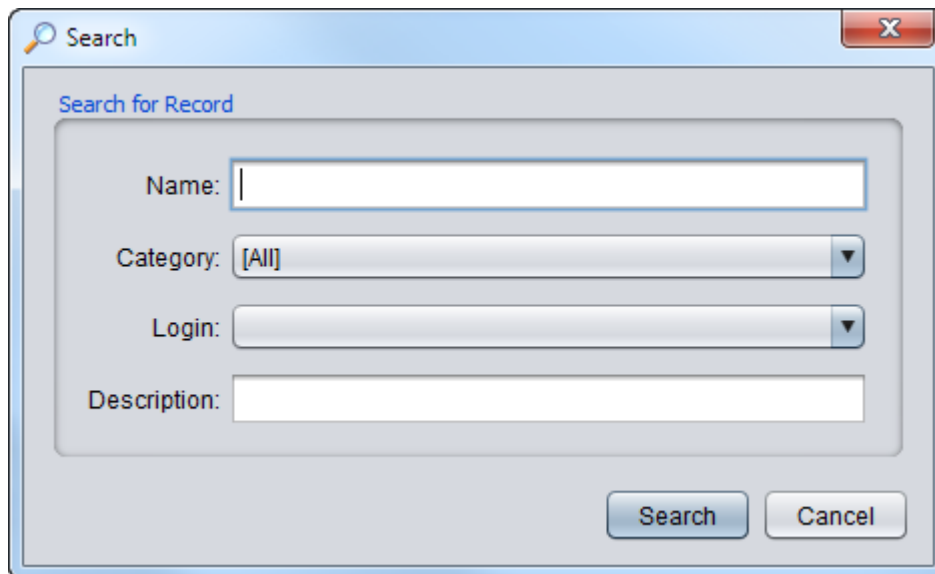
Record that are used often, can be marked as a Favourite. Records that are marked as a Favourite are displayed in Favourites Node, at the bottom of the Repository Tree, for easy access. Favourite Records are

also shown in Green, in the Repository Tree. To mark a Record as a Favourite, right-click the Record in the Repository tree and select *Add to Favourites*. To remove a Record from Favourites, select *Remove from Favourites*.

8.14. Searching for a Record

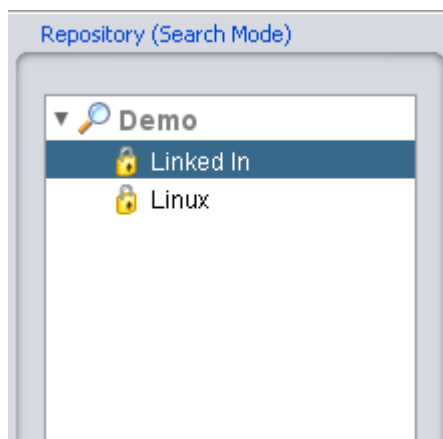
To search for a Record, execute the following steps:

1. Click on the **Search** button under the Repository Tree, or the Search button in the Toolbar (alternatively, right-click on the Repository node in the Repository Tree and click **Search**).
2. The following Window is displayed:



A screenshot of a 'Search' dialog box. The title bar says 'Search' with a magnifying glass icon and a close button. The main area is titled 'Search for Record'. It contains four input fields: 'Name:' (a text box), 'Category:' (a dropdown menu showing '[All]'), 'Login:' (a dropdown menu), and 'Description:' (a text box). At the bottom right are two buttons: 'Search' and 'Cancel'.

3. Enter the parameters to search by.
4. Click Search button
5. The Repository Tree is displayed with any Records that match the Search. Note: The Repository Icon is changed to a search icon, to indicate that only Records matching the search are displayed.





6. To cancel the search (and display all Records), click on the *Cancel* button under the Repository Tree or the *Cancel Search* button in Toolbar (alternatively, right click on the Repository node in the Repository Tree, and click *Cancel Search*).

8.15. Search Rules

1. When searching for Records, a Record is considered a match if the search parameter is contained anywhere in the actual value.

Example: Searching for one of *Win*, *Window* or *Windows* in the name field will match a name field of *Windows*

2. Leaving a field blank will match all value

Leaving the Name field blank will match Records with any Name value.

3. Searches are not case sensitive.

Example: Both *WIN* and *win* will match *Windows*

4. Search parameter have an AND relationship

Example: Search for Name=*Windows*, Category=*Computer Account*, Login=*Joe* will only match Records that have a Name matching *Windows* AND are in category of *Computer Account* AND have a Login matching *Joe*

5. Quotation marks (") are ignored when used in search parameters.

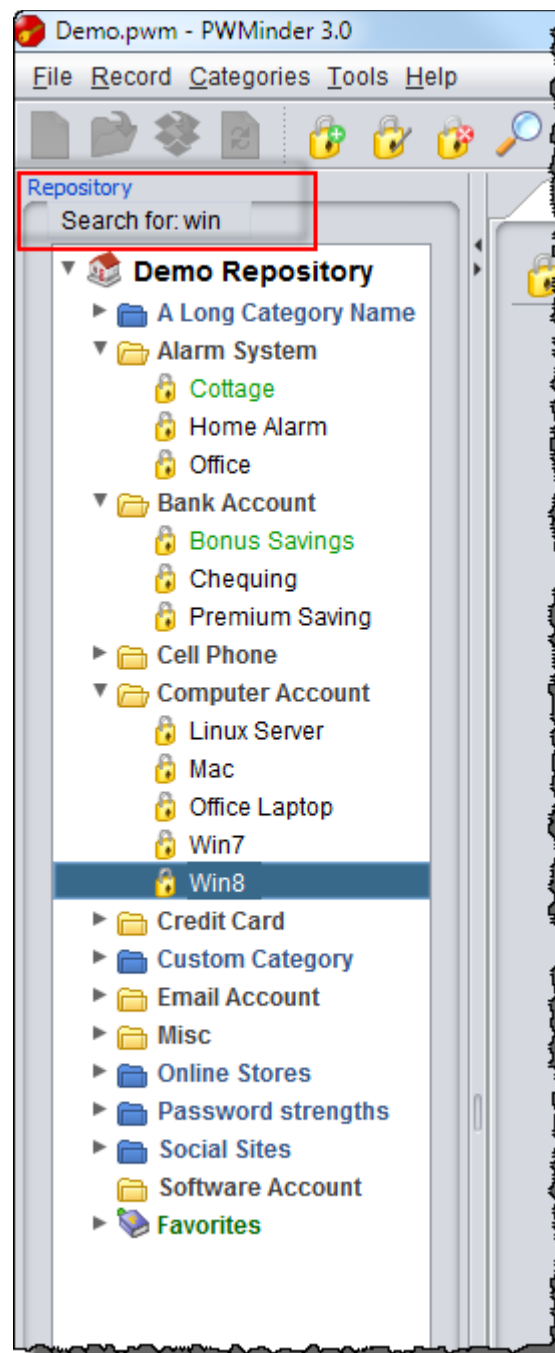
Example: Search for a Login of *"test"* will match records with logins like *"test"*, *"test* and *test*. A known issue with this, however, if a login has a " inside it, it won't be found in a search, e.g. login of *te"st* won't be found when searching for *te"st* since the " is ignored.

8.16. Quick Search in Repository Tree

Records and Categories can also be searched for, directly from the Repository Tree, by using Quick Search. To use Quick Search, execute the following actions:

1. Select the Repository Tree
2. Begin Typing
3. The Quick Search field is displayed showing what you have typed. Any Record or Category that matches what you have typed is automatically selected in the Repository Tree.
4. Use the up and down arrow keys to go back and forth between matches.
5. To cancel Quick Search, click ESC button.

Quick Search Example:



Note: Quick Search only matches the beginnings of words and is case-insensitive.

9. Auto Login

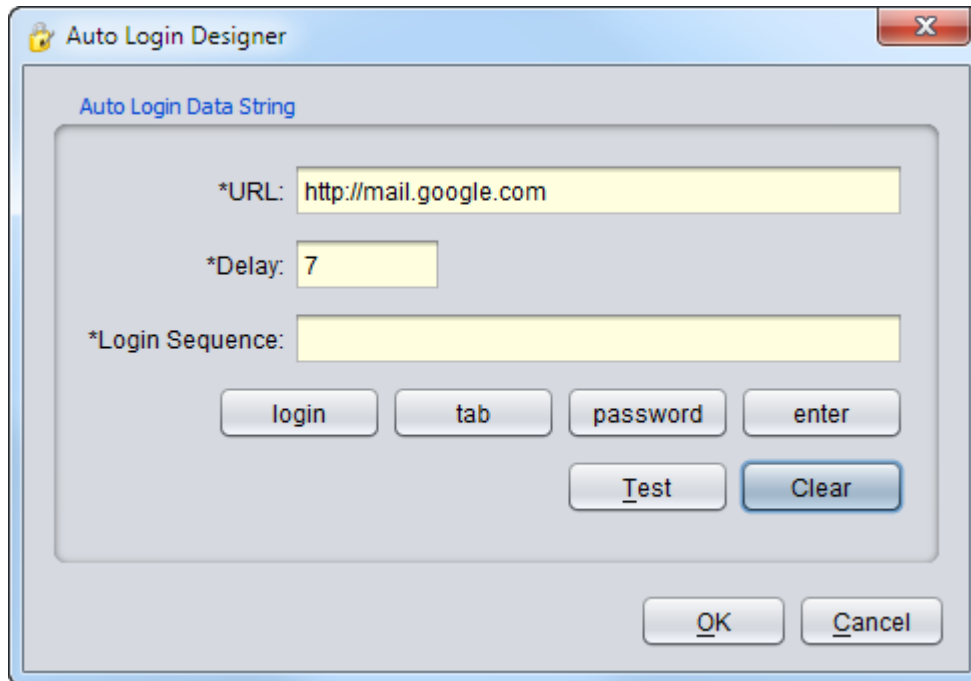
9.1. General

For web site based records, PWMinder supports Auto Login, where PWMinder can be used to open the web site in a browser, and then automatically type in the login and password.

9.2. Configuration

To set up Auto Login, execute the following steps:

1. Modify a Record.
2. On the Modify Record Window, click on the *Configure Auto Login* button. NOTE: this button will only be enabled if the Login, Password, AND Website (URL) fields have values set for them.
3. The following Window is displayed:



4. Modify the URL if necessary (this has been pre-populated with the value already entered on the Modify Window).
5. Enter a delay value (in seconds). This is delay time, between when the browser is opened and when the Login Sequence is initiated. The value to put in here will depend on connection speed, browser speed and how long it takes the web page to load. Valid values are from 1 to 99.
6. Enter the Login Sequence, but using the four buttons below. The Login Sequence can consist of the login value for the record (`${login}`), tab key(`${tab}`), the password for the record(`${password}`), and the enter key (`${enter}`). A typical login sequence would be login -> tab -> password -> enter (i.e. `${login} ${tab} ${password} ${enter}`). In some cases a tab may need to be used before the login, or possibly two tabs before the password.
7. Click on the Test button to test the auto login.



8. Click OK when done.

9.3. Execution

To use the Auto Login feature, on the Record Details screen, click on the *Auto Login* button. NOTE: this button will only be enabled, if Auto Login has been configured for the record.

Limitations

1. Auto Login only works with US Layout keyboards (international keyboard not yet supported)
2. Auto Login only supports logins and passwords that contain the following characters:
 - Letters A-Z and a-z (international characters not yet supported)
 - Digits 0 to 9
 - The following special characters: !@#\$%^&*()_+~{}|[]\:";'<>?,./
3. Auto Login will only work for Web Pages where the login can be accomplished using keyboard only, using tabs and enter. If the web page only allows access to the login fields using mouse clicks then Auto Login will not work.

HINT: some web site require you to click on a “Log On”, button, which takes you to a second web page that allows you type your login and password. In these cases, the second page's URL should be the one used in PWMinder.

9.4. Examples

Gmail

In the Record Details screen set you gmail username and password.
In the Auto Login Designer set up the following:

URL: <http://mail.google.com>

Delay: 10s (will depend on Computer and Connection speeds)

Login Sequence: \${login} \${tab} \${password} \${enter}

Facebook

In the Record Details screen set the login to your facebook email address, the password to your facebook password and the URL to <http://www.facebook.com/login.php>

Depending you which browser you use, and how your cookies are set up, and whether you have logged in before, the facebook login site may or may not already pre-populate the Email: field.

If, in your browser, the Email field is already filled in when going to the login site, use the following in the Auto Login Designer Login Sequence:

\${password} \${enter}

If, in your browser, the Email field is not already filled in when going to the login site, use the following in the Auto Login Designer Login Sequence:



```
${login} ${tab} ${password} ${enter}
```

10. Password Generator

PWMinder includes a Password Generator which can help to generate more secure passwords. It can be accessed by clicking on the *Generate...* button while creating or modifying a Repository, or when adding or modifying a Record. It can also be accessed using the *Tools->Password Generator...* menu.

10.1. Usage

1. Select the number of characters that the password should be (minimum of 10 is recommended)
2. Select whether the password should contain Alpha only characters, Numeric only characters or Alpha Numeric characters (Alpha Numeric is recommended)
3. If Alpha or Alpha Numeric was selected, select whether the password should be Upper Case only, Lower Case only or Mixed Case (Mixed Case is recommended)
4. Enter a Special Character that should be included in the password. Make sure the system that this password is being created for, accepts the Special Character chosen. If no special character is to be included, remove any character from the Special Character field.
5. Click Generate button
6. Click Copy to copy the password to the clipboard so it can either be pasted into PWMinder or into any other application.

NOTE: The Password Strength meter is meant to giving a general idea of how Weak or Strong the password is. A password with a 'Very Strong' rating does not guarantee that the password can't be hacked.

11. Message Digest Calculator

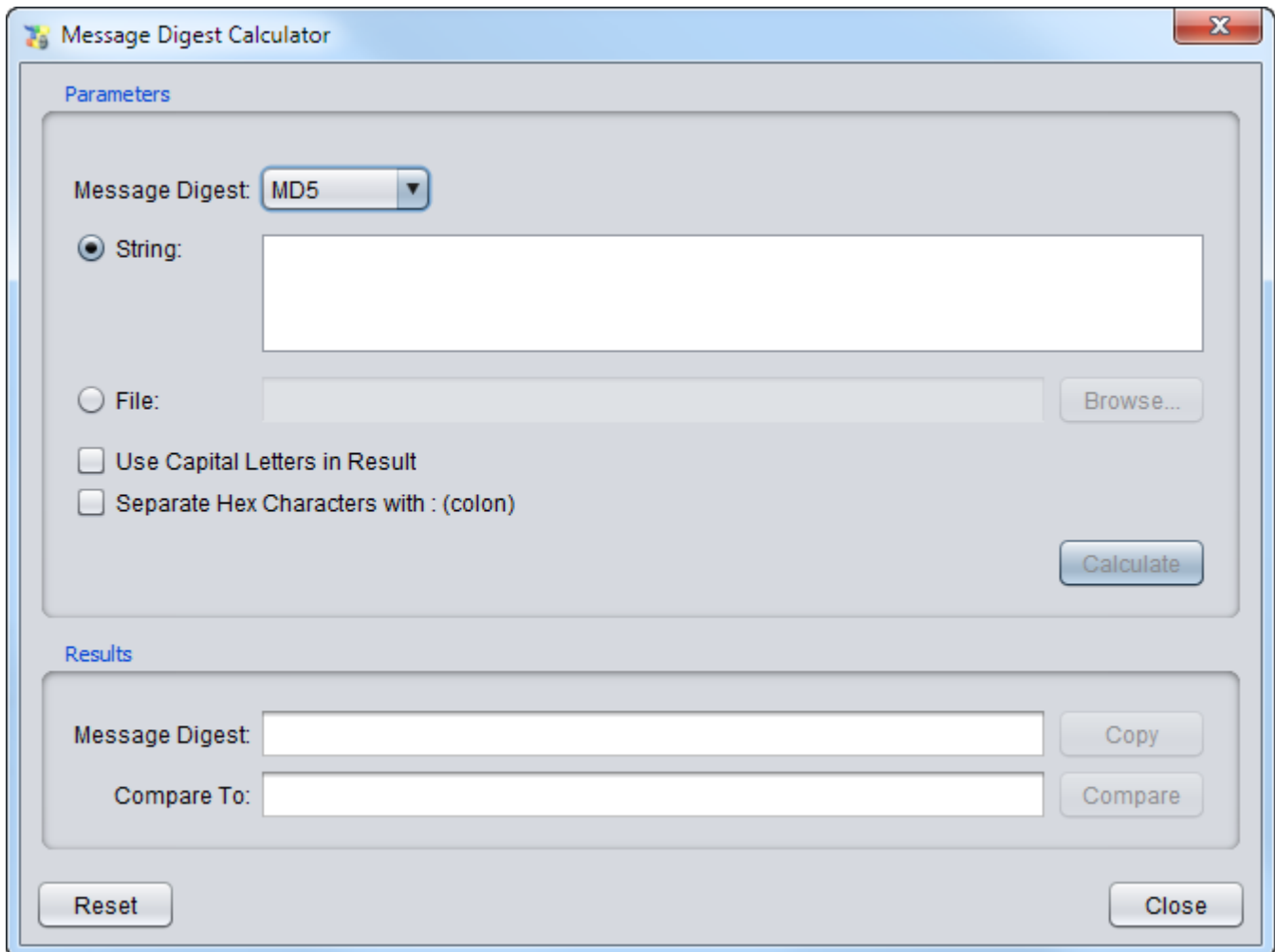
11.1. General

PWMinder contains a tool to use to calculate the Message Digest (Hash) of a Text String or File, using one of several hashing algorithms. A Message Digest is a way of representing a piece of Text, or a File as a string of digits. Ideally every different piece of text or file produces a different Message Digest, but the same pieces of text or same files should produce the same Message Digest. PWMinder supports MD5, SHA-1, SHA-256 and SHA512 hash algorithms.

11.2. Usage

To use the Message Digest Tool execute the following steps:

1. Select *Tools->Message Digest* from the menu
2. The following window is displayed:





3. Select the Message Digest hash algorithm you would like to use.
4. To calculate the Message Digest for a text String, type or paste the String into the text area. To calculate the Message Digest for a file, select the file using the *Browse...* button.
5. Configure how you would like the Message Digest to be displayed (for example with all capital letters, or with each Hex Characters separated by a colon).
6. Click on *Calculate*.
7. To compare this calculated value with a reference value, copy the reference value into the *Compare To:* field and click *Compare*. NOTE: The calculated value and the reference value must be displayed in the same format.

12. Encryption

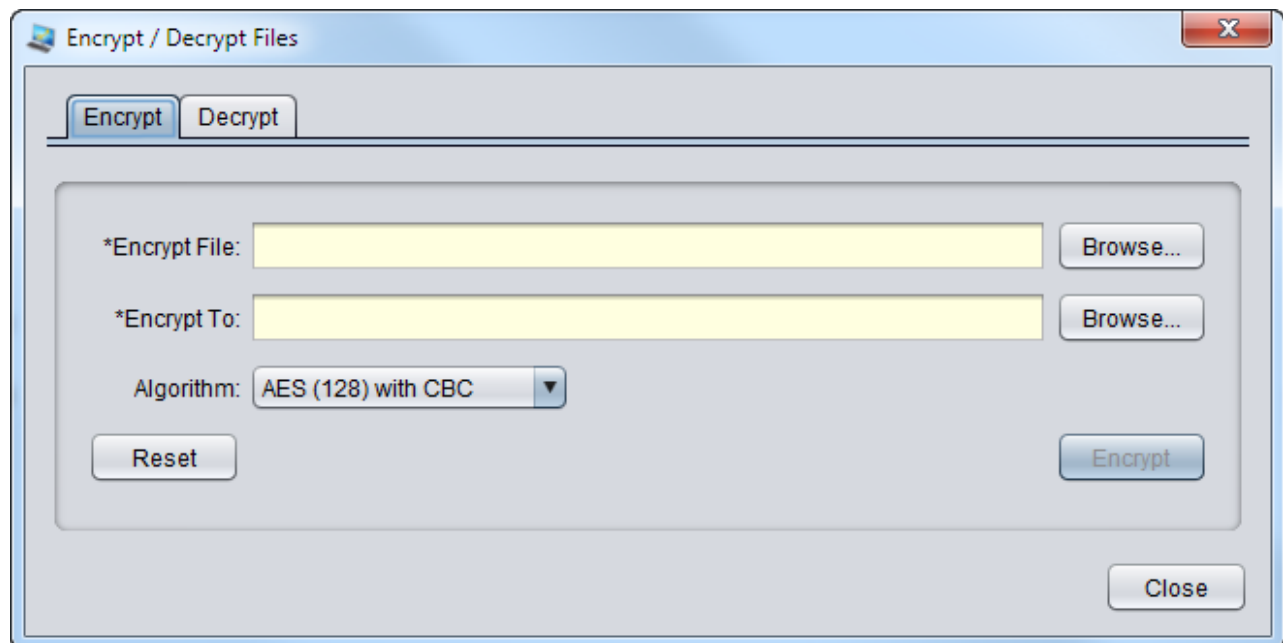
12.1. General

PWMinder includes a tool that allows you to encrypt files on your computer to help protect their contents. The files can then later be decrypted to view their contents.

12.2. Encryption Usage

To encrypt a file execute the following steps:

1. Select Tools->Encryption from the menu
2. The following window is displayed:



3. Select the *Encrypt* tab
4. Use the *Browse...* button to select the file you would like to encrypt
5. Use the *Browse...* button to select where you would like to save the encrypted file to. By default the name of the encrypted file will be the same as the original file, with a `.pwmcrypt` extension.
6. Select the Encryption algorithm you would like to use, it is recommended to use the default of AES (128) with CBC. (**WARNING: Make sure you remember which encryption algorithm you used, as this will be needed for decryption**).
7. Click on the *Encrypt* button.



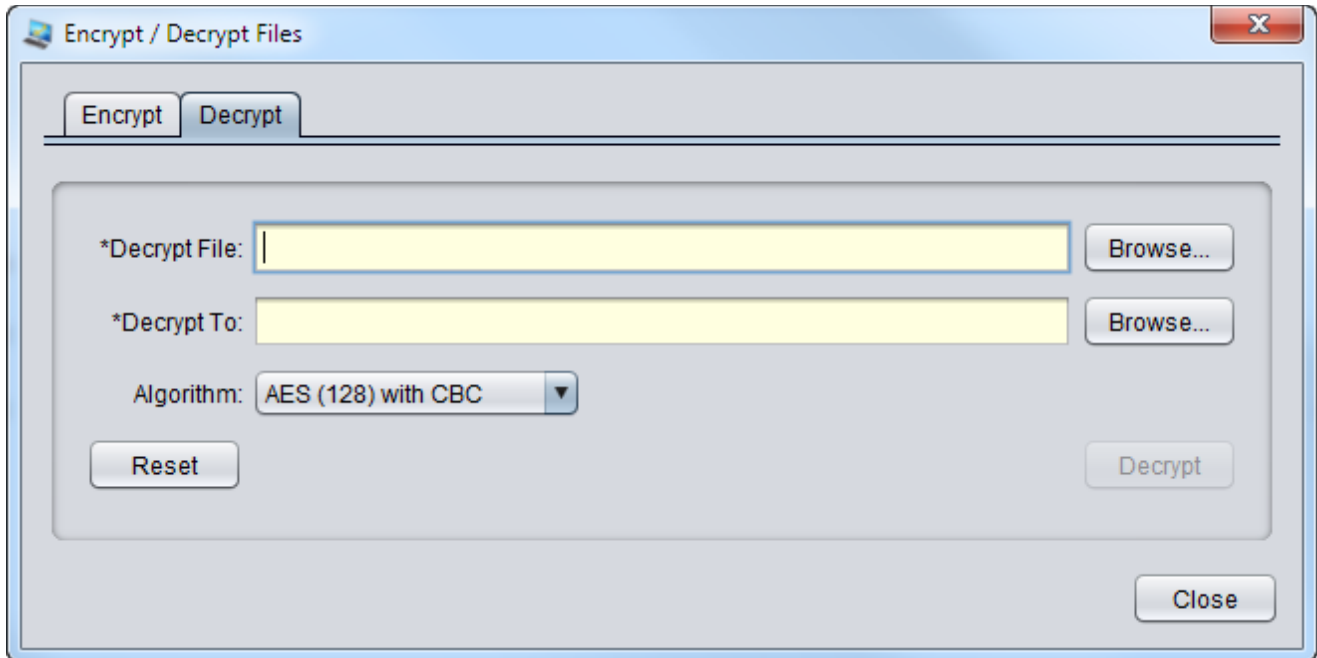
8. Enter the password you would like to use (**WARNING: Make sure you remember this password, as it will be required to decrypt the file.**)
9. Click OK, to begin the encryption.

NOTE: It is a good idea to test that the decryption works before deleting the original file.

12.3. Decryption Usage

To decrypt a file execute the following steps:

1. Select *Tools->Encryption* from the menu
2. The following windows is displayed



3. Select the *Decrypt* tab
4. Use the *Browse...* button to select the file to decrypt (this file should have a `.pwmcrypt` extension).
5. Use the *Browse...* button to select where to decrypt the file to. By default the file will have the same name as the encrypted file, but with the `.pwmcrypt` extension removed.
6. Select the algorithm to use, to decrypt the file (Make sure you use the same algorithm that was used to encrypt the file.)
7. Click on the *Decrypt* button.
8. Enter the password (Make sure you use the same password that was used to encrypt the file).
9. Click OK, to begin the decryption.

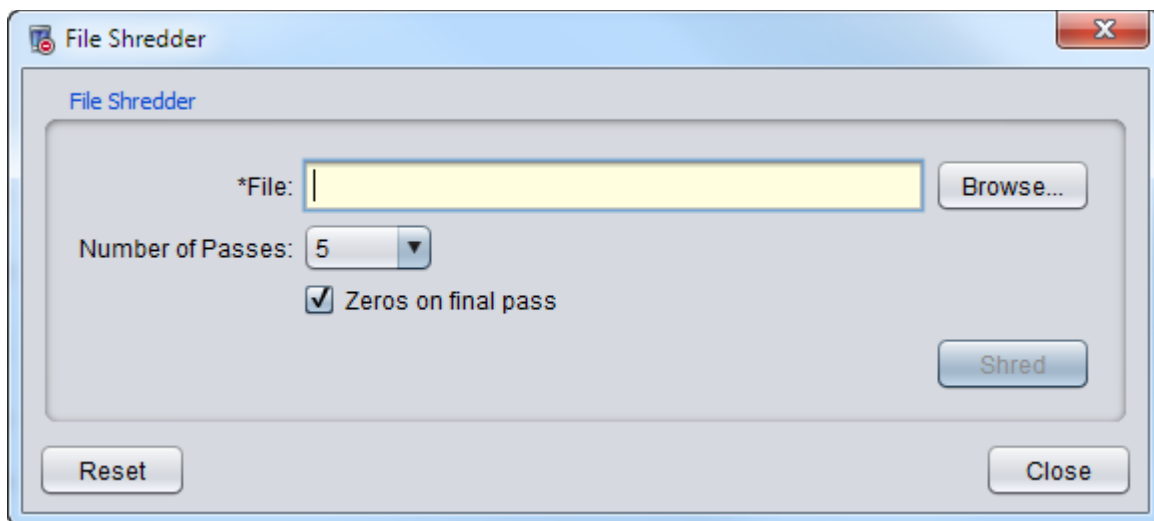
13. File Shredder

13.1. General

PWMinder includes a tool that shreds files on your computers. When normally deleting a file, it goes into the Recycle Bin, or Trash so it can be easily recovered. Even when files are permanently deleted from the Recycle Bin, remnants of the file can still remain on the hard drive and can sometimes be recovered. In some cases this is good (if you accidentally delete a file), but in other cases you may have sensitive data that you would like to completely remove. PWMinder can permanently delete a file by over-writing the data with random bits of data, making it much more difficult to recover the data.

13.2. Usage

1. Select *Tools->File Shredder...* from the menu
2. The following window is displayed:



3. Use the *Browse...* button to select the file you would like to shred.
4. Select the Number of Passes. This is the number of times the data will be over-written. The more times the data is over-written, the greater the security, but the longer it will take.
5. Select whether to over-write the data zeros on the final pass.
6. Click on the *Shred* button
7. Confirm that you want to permanently delete the file.

WARNING: After a file has been shredded it may be impossible to re-cover. Please make sure you want to permanently delete the file.

14. Export

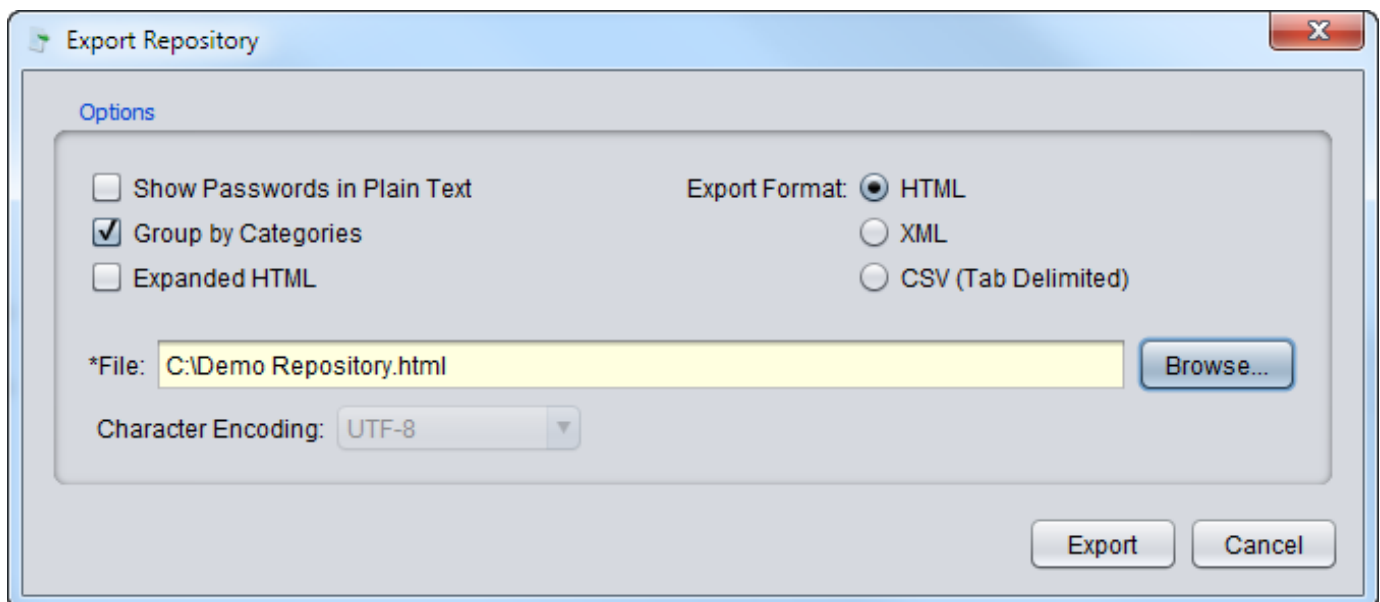
14.1. General

PWMinder allows for the data in a Repository to be exported into various formats. NOTE: the expiry date in the export, will be formatted in the same way as it is displayed (as specified in Options).

14.2. Procedure

To export data, execute the following steps:

1. Select *Tools->Export* from the menu (alternatively, click on *Export* in the Toolbar).
2. The following window is displayed:



3. Select whether or not the passwords should be exported in Plain Text or be masked as ***** (**WARNING: it may be insecure to have the passwords exposed as plain text.**)
4. Select whether the Records should be grouped by their Categories or not.
5. For HTML export, select whether the Records should be displayed in a simple table or into an expanded format, that displays each Record's data in its own table of name/value pairs (see Appendix for examples).
6. Select an export format (HTML, XML, or CSV)
7. For CSV, select the character encoding to use (UTF-8 is recommended).
8. Select a file to export to.
9. Click on Export.
10. When the export is complete, a confirmation message is displayed.
11. If you would like to open the export file, using the system default application, click Yes.

Important: Be careful when manually editing the export file name, to use the correct extension,



otherwise the file could be exported with an incorrect extension, e.g. HTML file gets exported with a .csv extension. To fix this, if it happens, simply use the file system to rename the file extension.

14.3. Export formats

HTML

Repositories can be exported to an HTML format, suitable for viewing and printing. HTML exports have two options, compact and expanded. In compact, records are displayed in a tabular format, one record per row. In expanded format, each record is listed separately in a set of name value pairs.

Examples:

Compact

Records:

Name	Description	Login	Password	Account Number	URL	Email	Notes	Security Question	Security Question Answer	Expire Date
Savings	Savings Account	abc	*****	987	http://www.bank.com	my@domain.com		What is your favourite colour?	Black	2010-03-26

Expanded

Savings

Description: Savings Account.
 Login: abc
 Password: *****
 Account Number: 987
 URL: <http://www.bank.com>
 Email: my@domain.com
 Notes:
 Security Question: What is your favourite colour?
 Security Question Answer: Black
 Expiry Date: 2010-03-26

XML

Repositories can be exported to XML format. The XML format can be used to programmatically exchange data with other systems, or can be used with css style sheets to create custom HTML displays. A full example of the XML export can be found in [Appendix 2 – Export](#)

CSV

Repositories can be exported to CSV suitable for opening in a spreadsheet. The data fields, in the export file are separated by tabs, and records are separated by line feeds.

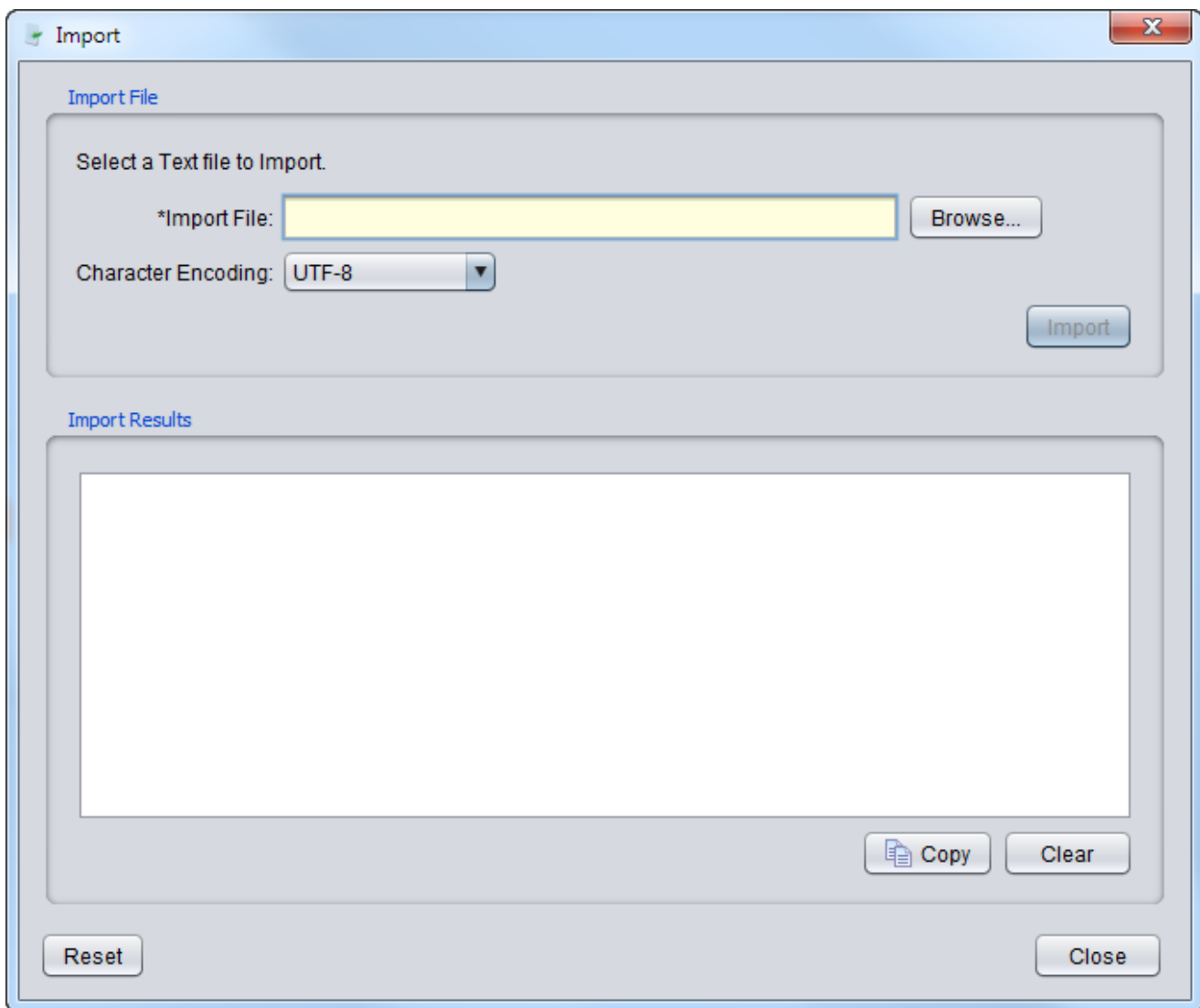
15. Import

15.1. General

PWMinder allows for the import of data into a Repository. The data must be in the format of a tab-delimited file.

15.2. Procedure

1. Select *Tools->Import* from the Menu.
2. The following Window is displayed.



3. Select a file to import (must have .csv or .txt extension).



4. Select the encoding that the file was created in (see [Section 15.5](#) for more information)
5. Click on the *Import* button
6. After the import has completed, results will be show in the Import Results. Review these results to see if there were any Errors or Warnings. **NOTE:** The Console results can be copied to the Clipboard and pasted into a Text Editor, for future reference.

Results Summary

At the end of the Results the following summary is given:

Import File: *The file that was imported*

Encoding used during import: *The encoding used, e.g. UTF-8*

Number of Lines: *The number of lines in the import file*

Number of Lines ignored: *The number of lines that did not appear to have any relevant data*

Records attempted: *The number of lines that appear to have record data*

Records imported: *The number of records that were successfully imported*

Records with warning: *The number of records that were imported, but had warnings, such as fields that were too long*

Records failed: *The number of records that were attempted but failed, e.g. because name was missing, etc.*

15.3. File Format

The import file must be a simple tab delimited text file (i.e. each field is separated by a tab character). Each line in the text file will contain the data for one Record that is to be imported. The import file should not contain any other lines of data, other that the data to be imported. The following table lists the fields, their format, whether or not they are required, and the maximum length. (NOTE: Empty fields must also be separated by tabs).

Field No.	Field	Comments	Max Length
0	Name	Required; may not contain " character, and may not be already used.	50
1	Category Name	Not required; if not specified, the record will be assigned to the Misc Category; if not found s new a Category with this name is created. May not contain " character	50
2	Category Description	Not required, only used if new Category is added	100
3	Description	Not required	150
4	Login	Not required	50
5	Password	Required	50
6	Account Number	Not required	30
7	URL	Not required; if specified it must be valid URL	320
8	Email	Not required; if specified it must be valid Email	320



9	Notes	Not required	250
10	Security Question	Not required	150
11	Security Question Answer	Not required unless security question is given	50
12	Expiry Date	Not required but if specified must be in format: yyyy-MM-dd	10

Validation

A record will fail to be imported if the name or password are missing, or the name already exists.

If data in a field is too long, the data will be truncated. A warning will be given but the record will still be imported.

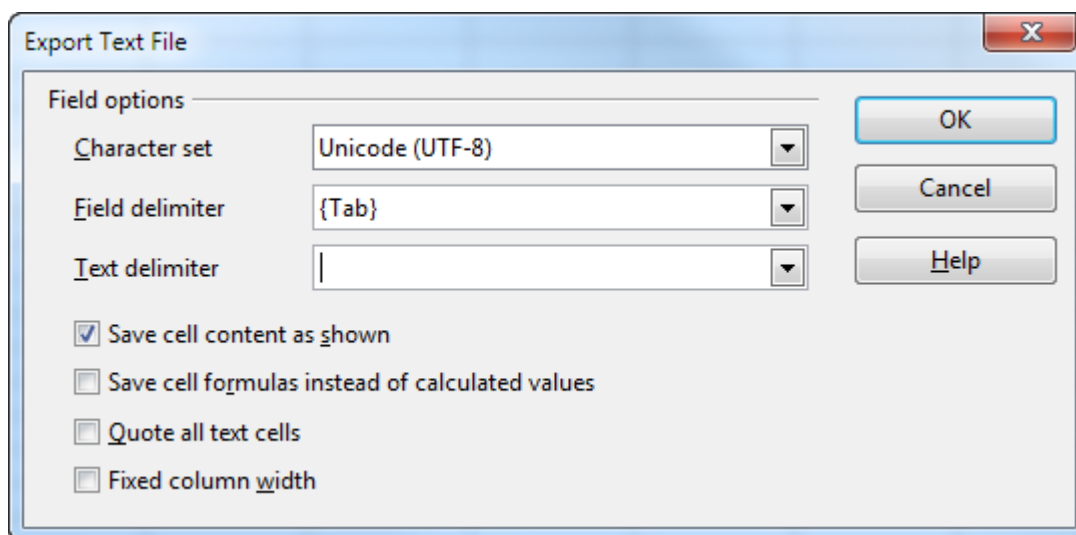
If the email or URL fields are invalid, or too long then they will be ignored (not included). A warning will be given, but the record will still be imported.

If a Security Question is supplied, but no Answer is supplied, the Security Question field will be ignored (not included). A warning will be given, but the record will still be imported.

If the Expiry date field has invalid format, it will be ignored (not included). A warning will be given, but the record will still be imported.

15.4. Tips for Creating import files

The easiest way to create a tab delimited file is to use a spreadsheet program like LibreOffice Calc. You can enter your data into the spreadsheet, and then save it as Text CSV, making sure you set the field delimiter to TAB, and the Text delimiter to none. Also make note of the Characters Set, as you will need to match this, when importing. It is recommended to use UTF-8.



15.5. Encoding

The import function supports the following file encodings (Characters Sets):

Encoding (Character Set)	Comments
UTF-8	Default and recommended encoding
ISO-8859-1	Available on all Operating Systems
US-ASCII	Available on all Operating Systems
windows-1252	Available only on Windows
MacRoman	Available only on Mac OS/X

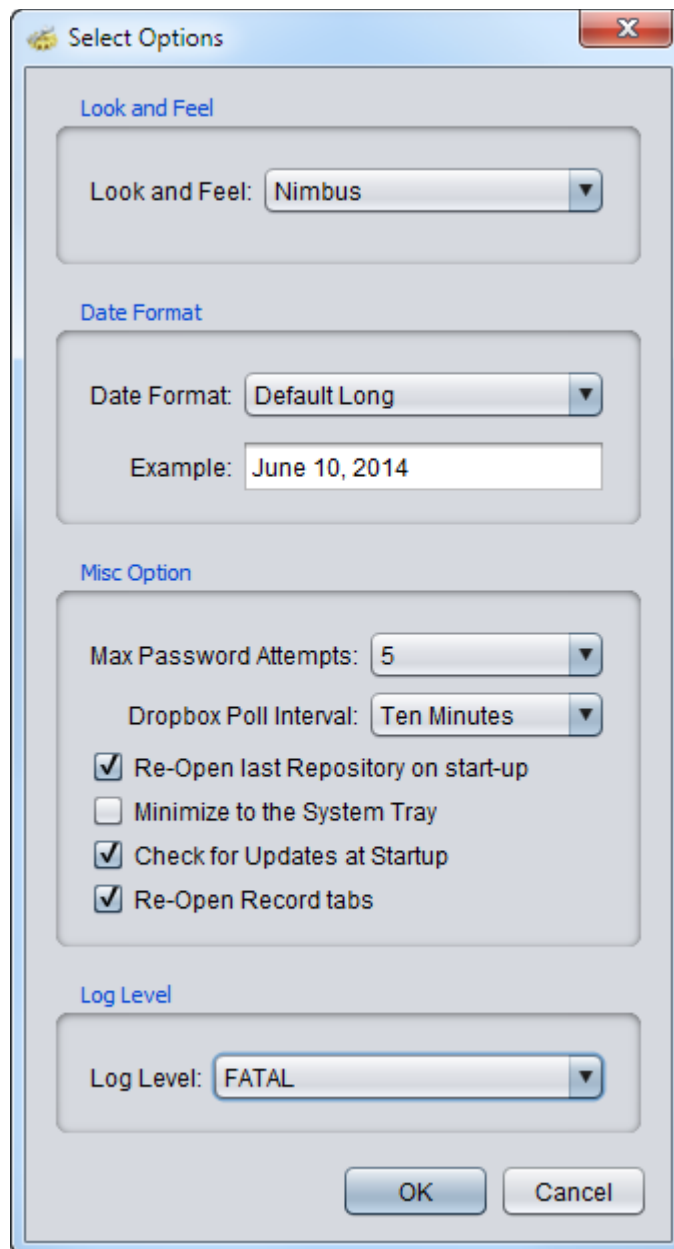
NOTE: When creating your import file, it is recommended, to use UTF-8 as it is universally accepted across all languages and Operating Systems.

When importing, make sure you select the encoding, that matches the encoding that was used when creating the import file.

16. Options/Preferences

16.1. General

PWMinder has several user options/preferences. To open the options window click on *Tools->Options...* (alternatively click on the *Options* icon on the Toolbar). On Mac, select *Preferences...* from the Application Menu. The following window is displayed:





16.2. Look and Feel

PWMiner currently supports the following Look and Feels:

Look and Feel	Description
System	This Look and Feel attempts to match, as closely as possible, the Look and Feel of the current Operating System. This is the default Look and Feel, when installing PWMiner.
Nimbus	A new cross-platform Look and Feel, developed by Sun. This Look and Feel requires Java 6 update 10, or higher.
JGoodies Windows	A Standard Windows-Like Look and Feel from jgoodies .
JGoodies Plastic 3D	An elegant multi-platform Look and Feel from jgoodies .
EaSynth	Default Look and Feel for EaSynth Look and Feel Designer.
Quaqua	An enhanced Mac OS X Look and Feel (for Mac OS X only)

16.3. Date Format

This options allows for the setting of the date format for the Record expiry date. The following date formats are supported.

Format	Description
Default Long	The default long date format set up on the users computer (based on locale of the O/S)
Default Short	The default short date format set up on the users computer (based on locale of the O/S)
yyyy-MM-dd (ISO)	The ISO standard date format (Recommend)
dd/MM/yyyy	Common date format.
dd.MM.yyyy	Common date format.
mm/dd/yyyy	Common date format.

When selecting different date formats, an example of how it will be displayed, is shown below it.

16.4. Misc Options

A set of miscellaneous options.

1. Max Password Attempts. The maximum number of time you can try to enter the password for the Repository, before PWMiner is exited.
2. Dropbox Poll Interval. How often PWMiner should check for updates to the Repository File on Dropbox.
3. Re-Open last Repository used. When checked, when PWMiner is started, it will prompt for the Password of the last Repository that was used. Otherwise you need to browse for the Repository you want to open.
4. Minimize to Tray. When checked when PWMiner is minimized, it will disappear into the System Tray. To Restore from the System Tray, either double click the System Tray icon, or right-click on the System Tray icon and click on Restore PWMiner. Note: This will be disabled on Mac, since it doesn't use the System Tray feature.



5. Check for Updates at Startup. When checked (off by default), PWMinder will automatically check for Updates each time it starts.
6. Re-Open Record tabs. If checked, all of the Record Tabs that were previously opened will be restored at start-up.

16.5. Log Level

This sets the logging level for the log file. By default, this is set to ERROR, so only ERROR level message are written to the logs.

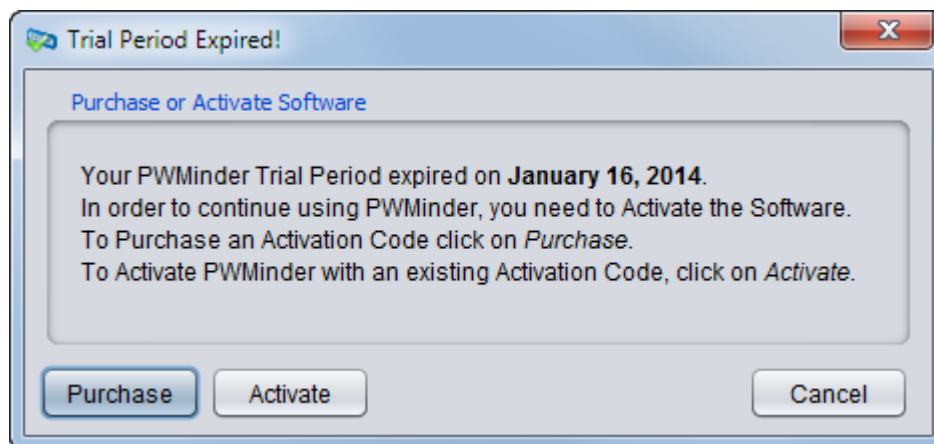
17. Software Activation

In order to keep using PWMinder after the 30 day trial period, an Activation Code must be purchased and used to activate the Software. Ewert Technologies uses Kagi (<http://www.kagi.com>) as its third party transaction processing agent. Purchasing an Activation Code can be made through Kagi, directly from within PWMinder (Windows Only), or by going to the Ewert Technologies store hosted by Kagi (http://store.kagi.com/cgi-bin/store.cgi?storeID=6FGSY_LIVE&&).

17.1. Purchase Registration Code using Kagi Sales Assistant (Windows Only)

IMPORTANT: You must have Internet access to be able to use the Internal Registration module.

When the application starts, click on the *Purchase* when asked to whether to Purchase an Activation Code:



Alternatively click on *Tools->Purchase Activation Code...* on the menu bar.

After a few seconds the following Form is displayed:




Ewert Technologies

Purchase Activation Code for PWMinder Desktop

To purchase an Activation Code for PWMinder Desktop, click on the *Add to cart* button, below.

For more information about PWMinder for Desktop please visit the [PWMinder Desktop Home Page](#)

**PWMinder Desktop**

PWMinder Desktop is a secure Password Management software application for Windows and Mac.

\$34.00 CAD

[Add to cart](#)

Having trouble? Call (510) 658-5244, Monday thru Friday between 9:00 a.m. and 5:00 p.m. Pacific Time. (Store Code: 6FGSY_LIVE)

powered by **KAGI**

To Purchase an Activation Code:

1. Click on *Add to cart*
2. Make sure the Quantity is set to 1, and confirm your Country and Currency
3. Click on *Proceed to Checkout*
4. Enter your E-Mail Address and Billing Address
5. Click on *Proceed to Payment*
6. Enter your Credit Card Number, Expiration Date and Security Code
7. Click *Complete Purchase* button.
8. Kagi will process the Transaction
9. Once the transaction is processed successfully the following is displayed:



Ewert Technologies

This page is secure.

Thank You for Your Order

Total: \$34.00

We are processing your order now. You will receive an email confirmation from "admin@kagi.com" shortly.

Billing Support (Kagi): This online store is powered by Kagi. If you need assistance with your order, please contact Kagi at (510) 658-5244, Monday thru Friday between 9:00 a.m. and 5:00 p.m. Pacific Time, or by email at help@kagi.com.

Product/Technical Support: For product support, please contact the product supplier, Ewert Technologies, at support@ewert-technologies.ca.

Order Summary

Transaction ID: [REDACTED]		
Order Date: 2014/06/24 10:37:19		

Item Details	Quantity	Item Subtotal
<div style="display: flex; align-items: center;"> <div> PWMinder Desktop License / Download Info. Activation Code: [REDACTED] </div> </div>	1	\$34.00
Subtotal		\$34.00
Tax		\$0.00
Total (CAD)		\$34.00

E-Mail Address

[REDACTED]

Billing Address

[REDACTED]

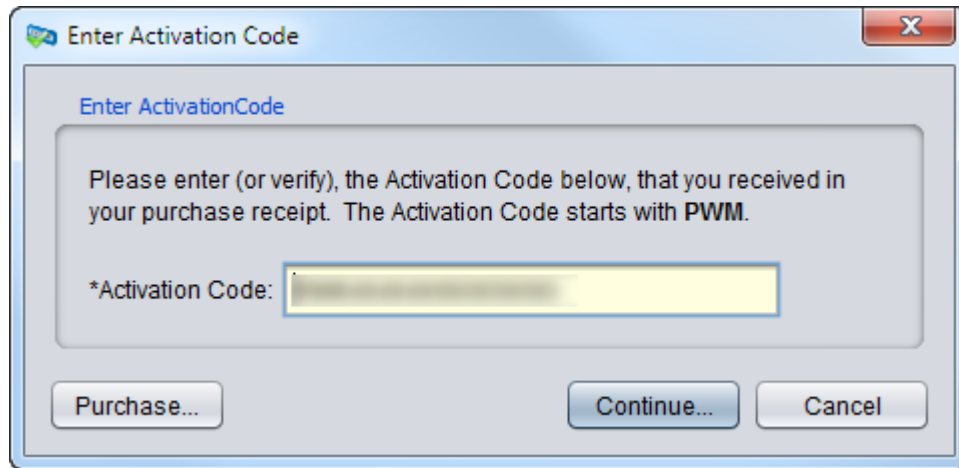
[Print My Receipt](#)

[Close](#)

Having trouble? Call (510) 658-5244, Monday thru Friday between 9:00 a.m. and 5:00 p.m. Pacific Time. (Store Code: 6FGSY_LIVE)

powered by **KAGI**

10. After clicking *Close*, the Activation Code will automatically be copied into the Activation Code field:



11. To Continue, to activate the software, follow the instructions for Activating the Software.

17.2. Purchase Registration Code Online

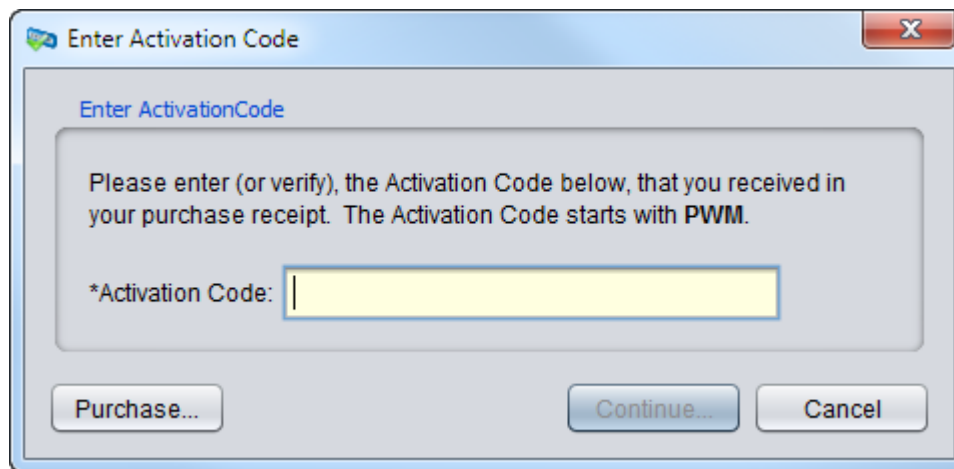
To purchase online go to PWMinder home page, <http://www.ewert-technologies.ca/products/pwminder>, click on the Purchase link and then click on the Buy Now button. This will take you to the Ewert Technologies store on Kagi.

1. Click on *Add to cart*, to add PWMinder to the Shopping Car.
2. Change County (if necessary)
3. Change Currency (if necessary)
4. Confirm Quantity information
5. Click on *Proceed to Checkout*
6. Enter Payment Method
7. Enter E-Mail Address
8. Enter Billing Address information
9. Click on *Proceed to Payment*
10. Enter Payment Information
11. Confirm all Information
12. Read Kagi's Refund Policy
13. Click *Complete Purchase* button
14. View Confirmation and if desired Print a copy of the Receipt
15. Make note of the Activation Code.

17.3. Activate the Software

In order to Activate PWMinder, you need to have purchased an Activation Code. You can purchase an Activation code directly from within PWMinder (Windows only) or from the Ewert Technologies Store website. Once you have an Activation Code, execute the following steps:

1. Click on *Tools->Activate Software* (This step can be omitted if you purchased directly from within PWMinder, using the Kagi Sales Assistant)



2. Copy the Activation Code into the Activation Code field. (This step can be omitted if you purchased directly from within PWMinder, using the Kagi Sales Assistant)
3. Click *Continue*



Activate Software

Instructions

To Activate PWMinder with the Activation Code below, fill in your Name, create a Password and enter an eMail address, and then click the Activate Button. To use a different Activation Code, click on Cancel Button.

Activation Information

*Activation Code: PWM1434047608651870

*Name:

*Password:

*Confirm Password:

*eMail:

*Confirm eMail:

Notes

The password above, will be required to Re-Activate the Software. The eMail address can be used to retrieve your password in case you forget it.

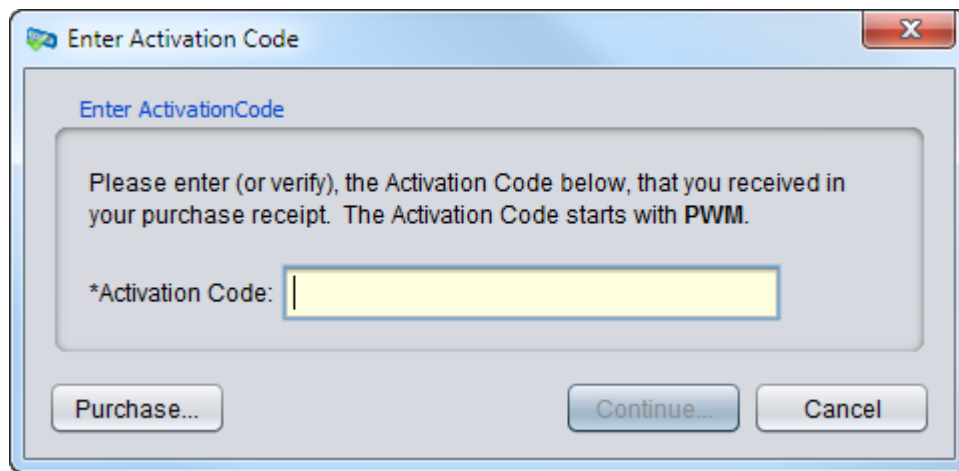
Activate **Cancel**

4. Enter your Name, a Password and an eMail address. The password you choose will be required if you ever need to Re-Activate the software. The eMail address is used to retrieve your password, in case you forget it.
5. Click on *Activate*
6. A message will be displayed that the Software has been Activated.

17.4. Re-Activate the Software

To Re-Activate the software, using a previously used Activation Code (e.g. if you need to re-install PWMinder on a new Computer), execute the following steps:

1. Click on *Tools->Activate Software*



2. Copy the Activation Code into the Activation Code field.
3. Click on *Continue*



Re-Activate Software

Instructions

The Activation Code PWM1434047608651870, has already been used to Activate this Software. To use a new or different Activation Code, click on the Cancel Button.

To Re-Activate this Software, using Activation Code below, fill in your Name, enter your current Password, then create a new Password, and finally, click the Re-Activate Button.

Re-Activation Information

*Activation Code: PWM1434047608651870

*Name:

*Current Password:

*New Password:

*Confirm Password:

Notes

If you forgot your current password, click on the Send Password button, and your password will be sent to the eMail address you used during the initial Activation.

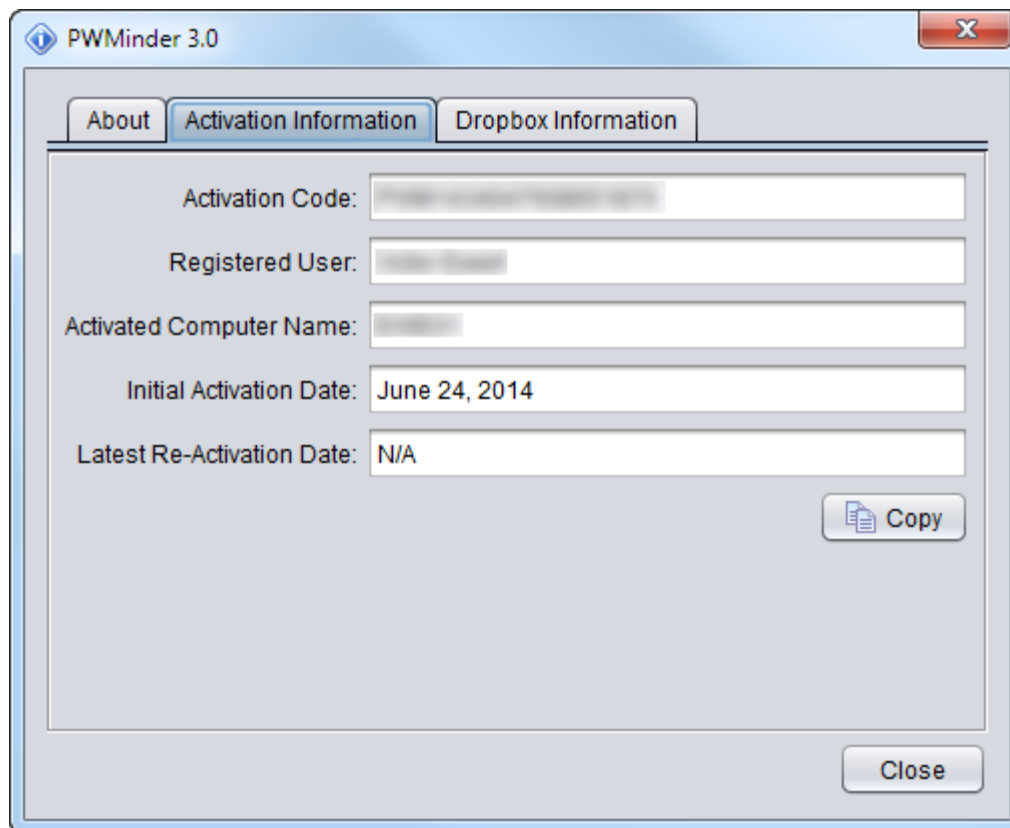
4. Edit your Name if desired.
5. Enter your Current Password and a new Password. The Current Password is the password you used when you initially activated PwMinder. If you have forgotten this password, use the *Send Password* button, and the password will be emailed to the email address you used when you initially activated PwMinder. The new Password will be needed if you ever need to Re-Activate the password again.
6. Click on *Re-Activate*
7. A message will be displayed that the Software has been Activated.



17.5. View Activation Information

Once PWMinder has been registered, the Registration Information can be viewed by executing the following steps:

1. Click on *Help->About*
2. Click on the *Activation Information* tab
3. The following is displayed:



To copy the information to the clipboard, click on the *Copy* button.



18. Help Menu

The following describes the functions available under the Help menu.

18.1. User Guide

To Open a copy of this User Guide from within PWMinder, click on *Help->User Guide*.

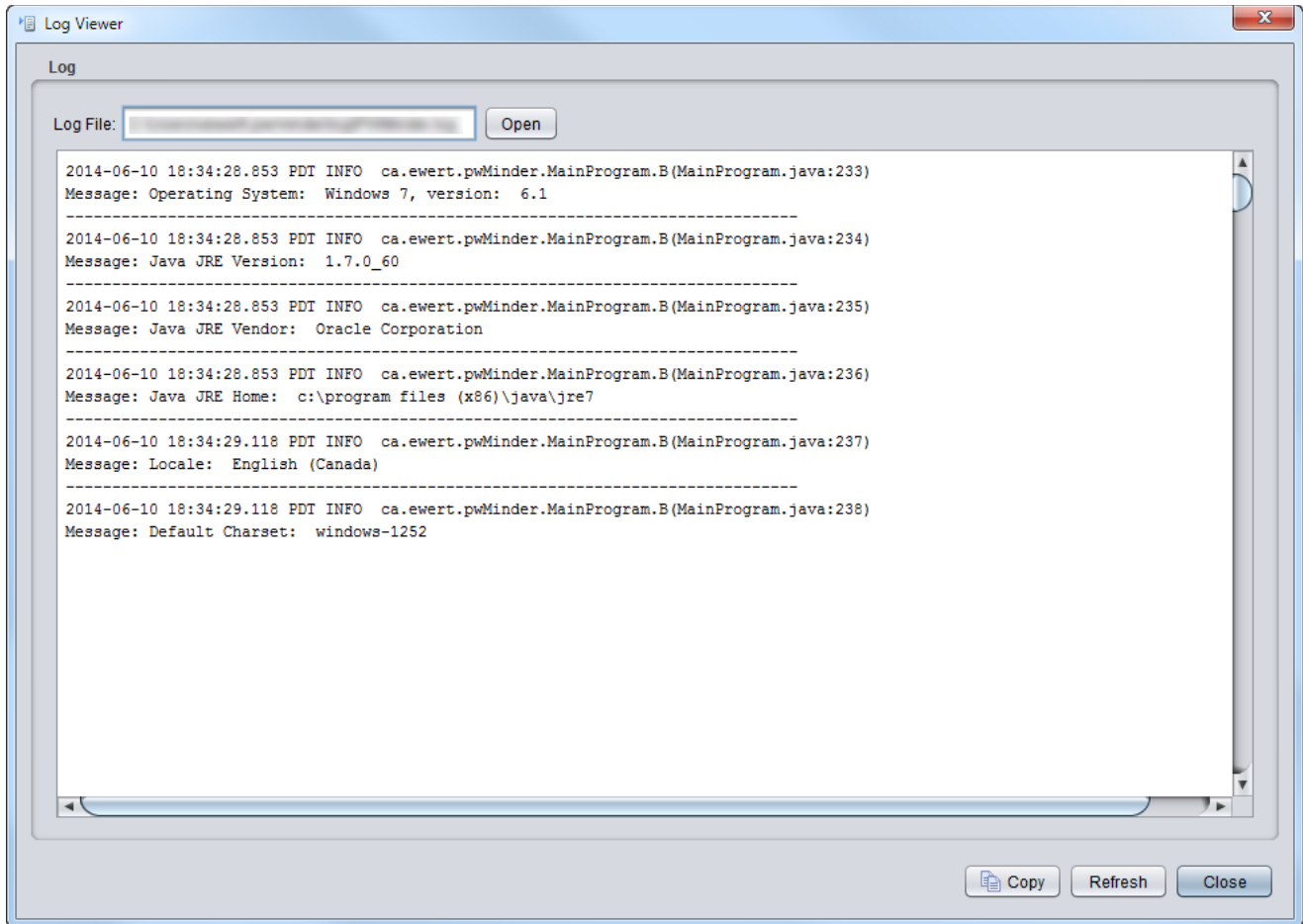
IMPORTANT: You need to have Adobe Reader (or other PDF reader) installed for this to work.

18.2. Check for Updates

To check if there is a new version of PWMinder available, click on *Help->Check for Updates*.. If a newer version of PWMinder is available, a message box will be displayed. Clicking Yes on the message box will open your browser to the PWMinder download website.

18.3. View Log

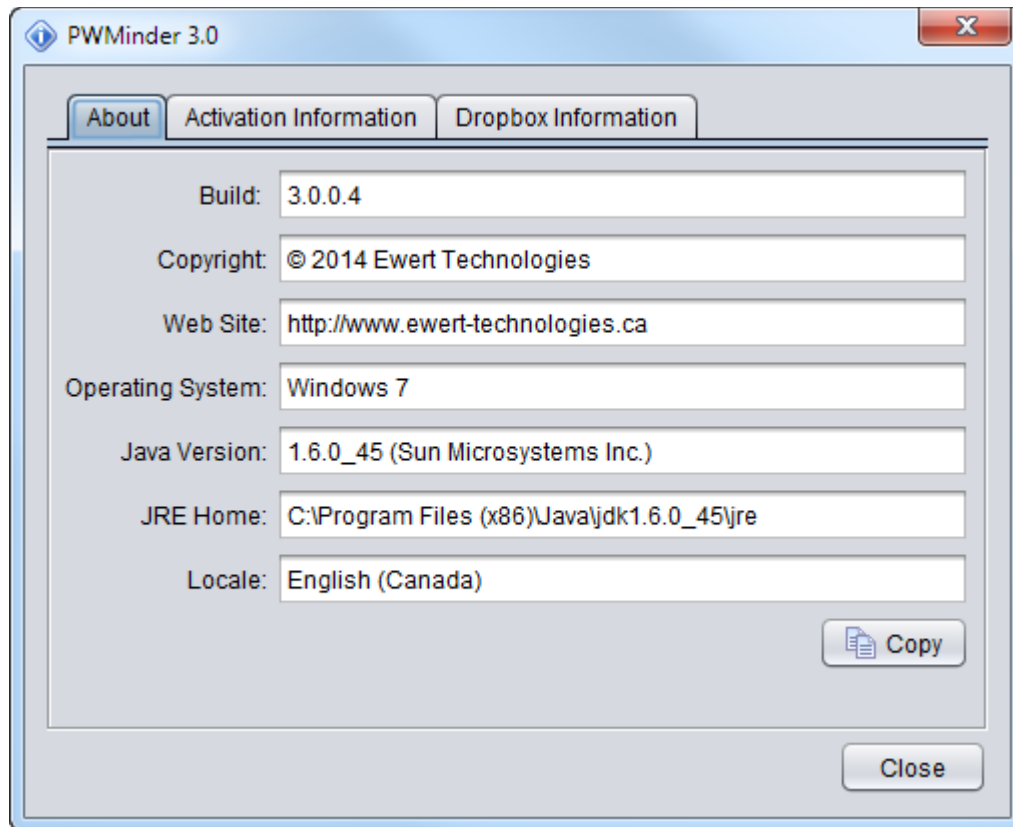
To view the Application logs, click on *Help->View Log*.



This information can be useful, when trying to diagnose any problems. The Information can be copied to the clipboard, using the *Copy* button.

18.4. About

To view Information about PWMinder, and your System Configuration, click on *Help->About*. (On Mac click on *About* in the *Application* menu). The About window contains three tabs (*About*, *Activation Information* and *Dropbox Information*):



This information can be copied to the Clipboard and should be included with any support issues.

19. Dropbox

PWMinder can be integrated with Dropbox, allowing you to store and access your Repository files within Dropbox. This allows you to access your password Repository file from different computers and devices, and also provides a back-up of your Repository file(s). NOTE: in order to integrate PWMinder with Dropbox, you need to have a Dropbox account.

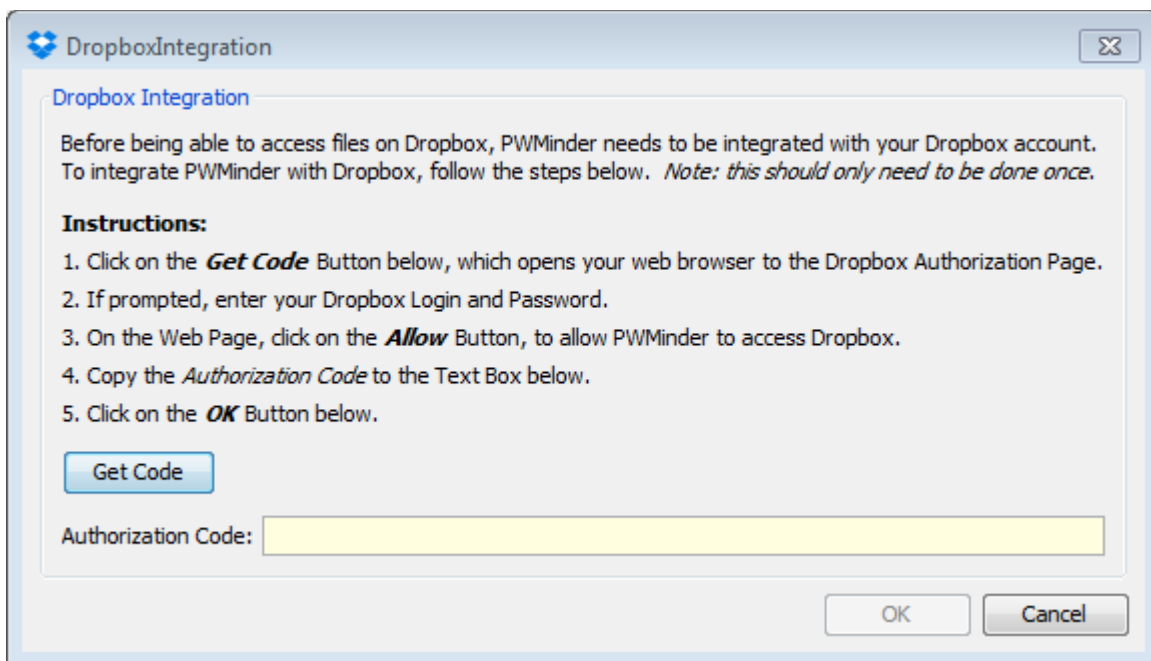
PWMinder Repository files are stored in the following folder in Dropbox:

/Apps/pwMinder

19.1. Integration

Before you can begin using Dropbox with PWMinder, PWMinder needs to be integrated with your Dropbox account. NOTE: PWMinder will only be able to access files in its own pwMinder folder within Dropbox and can not access any other files in your Dropbox account. To integrate PWMinder with Dropbox execute the following steps:

1. Click on *Tools->Dropbox Integration...*
2. The following window is displayed:



3. Click on the Get Code button, which opens the Dropbox Authorization Page:



Sign in before linking with pwMinder

[Forgot your password?](#)

[Sign in](#)

[New to Dropbox? Create an account](#)

4. If prompted, enter your Dropbox Login and Password and click *Sign In*.



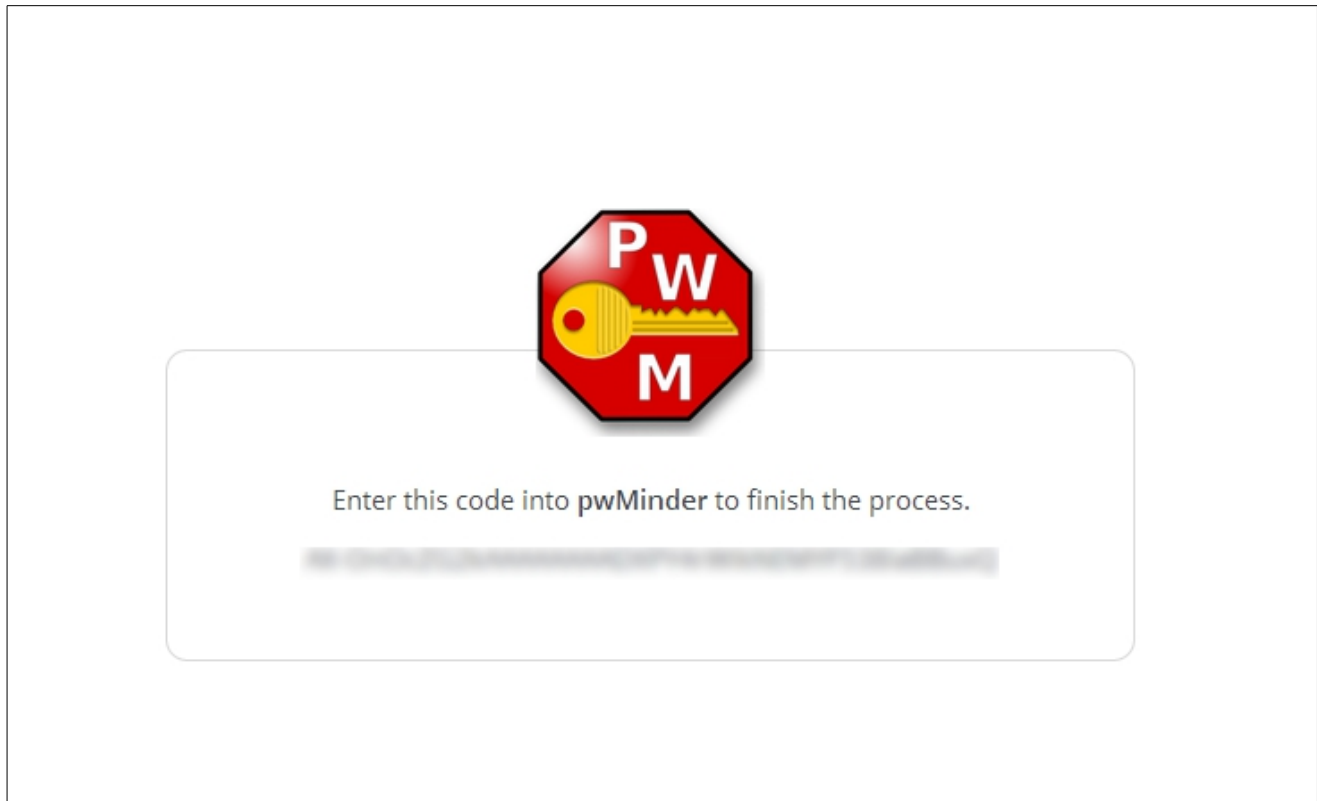
pwMinder would like access to its own folder,
Apps > pwMinder, inside your Dropbox.

Cancel

Allow



5. Click on the *Allow* button on the Web Page (which allows PWMinder to access your Dropbox account)



6. Copy the Authorization Code given, to the text field in the Dropbox Integration window
7. Click OK.

19.2. Creating a Repository in Dropbox

To create a New Repository, that is saved to Dropbox, select the Dropbox option in the *Create New Repository* window. The file will automatically be uploaded to the `Apps/pwMinder` folder in Dropbox.

NOTE: If the Dropbox option is not available in the *Create New Repository* window, that means that PWMinder hasn't been integrated with Dropbox.

19.3. Opening a Repository in Dropbox

To open a Repository file stored in Dropbox, execute the following steps:

1. Select *File->Open Dropbox Files...* or click on the *Open Dropbox File* button on the toolbar.
2. Select the Repository file you would like to open.
3. Enter the password for the file.

19.4. Refreshing Data from Dropbox

If you are accessing and modifying your Repository data from several devices or computers, you may want to refresh your data locally to make sure it is up to date. To refresh your data click on *File->Refresh* menu item,



or click on the *Refresh* button on the toolbar. If the data on Dropbox has changed you will be notified and asked to confirm, to Re-Load the data. After Re-Loading the data, the Repository file will be closed and re-opened and you will be prompted to re-enter your password.

19.5. Automatically Check for Updates

PWMinder will also periodically check for any updates to the data in Dropbox. By default it will check every 5 minutes, but this can be configured in the Options.

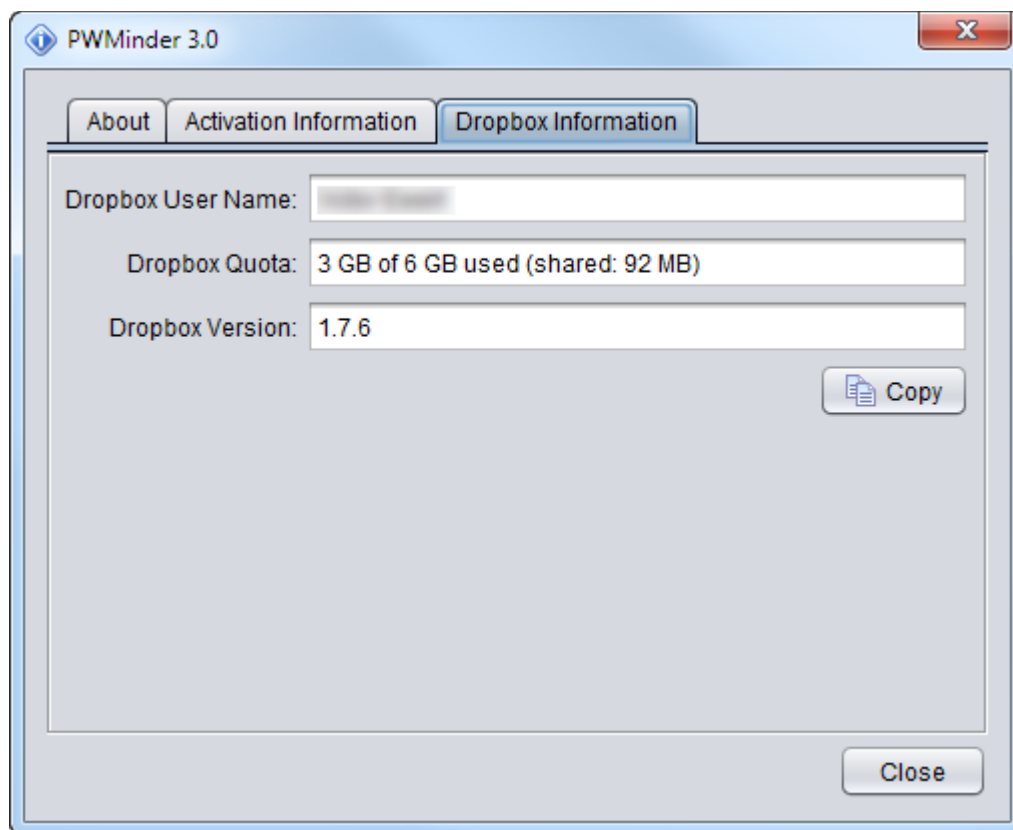
19.6. Move an existing Repository file to Dropbox.

If you have an existing Repository file, that you would like to start using with Dropbox, simply upload the file to the `/Apps/pwMinder` folder in your Dropbox account (e.g. using the Dropbox Web Interface). Then, the next time you try to Open a Dropbox file, the file should be available.

19.7. View Dropbox Information

To view your Dropbox Information execute the following steps

1. Click on *Help->About*
2. Open the *Dropbox Information* tab:





19.8. Clearing Dropbox Cache

When a Dropbox Repository file is opened in PWMinder, the file and associated information is stored locally. The cache folder is located at: `<user>/ .pwminder/DropboxCache` (this location may be hidden on some systems). If you would like to clear the contents of this cache folder, use *Tools->Clear Dropbox Cache*.

NOTE: To be able to clear the files, all Dropbox Repository files must be closed. Please make sure you close all Dropbox Repositories in all instances of PWMinder before attempting to clear the cache.



20. Administration

20.1. Backing up Repositories

Because Repositories are stored as files on the computer file system, they can be backed up just like any file, by making a copy of it to another location. It is recommended to periodically make a back-up a copy of your Repository files to a CD or other external storage, in case something happens to the original.

If you are using Dropbox for your Repositories, Dropbox automatically keeps the past several version of the file, which can serve as a Backup.

20.2. Moving Repositories

Because Repositories are stored as files on your computer, they can easily be moved from one location to another, to a thumb drive, or even to another computer, by simply moving the Repository file. Since PWMinder runs on various Operating Systems, the file can even be moved to and used on a Computer using a different Operating System, than from what it was created on. For example, a Repository can be created on a Windows computer, and then copied and used on a Mac Computer.

Important: When a Read-Only file is copied from a Windows computer to a Mac computer, it may become locked. The file must be unlocked before it can be modified and saved in PWMinder.

21. References

21.1. Repository Tree

Icon	Description
	Repository Node
	Closed Category Node
	Open Category Node
	Closed Custom Category Node
	Open Custom Category Node
	Favourites
	Record

21.2. Menu Bar







Mac Application Menu

Menu Item	Description	Mac OS X Shot Cut Key
About PWMinder	Display About Information	
Preferences...	Open the Preferences screen	⌘,
Quit PWMinder	Exit the Application	⌘Q



File

Menu Item	Description	Windows/Linux Short Cut Key	Mac OS X Shot Cut Key
Welcome Screen...	Display the Welcome Screen		
New...	Create a new Repository	Ctrl+N	⌘N
Open Local Repository...	Open a Repository from a Repository file	Ctrl+O	⌘O
Open Dropbox File...	Open a Repository file stored on Dropbox		
Recent Repositories	Displays a list of recently opened Repositories		
Refresh	Refresh data from Dropbox		
Repository Info	Display information about the Repository		
Modify Repository...	Modify a Repository's information		
Save As...	Save the current Repository to another file.	Ctrl+Shift+S	⇧⌘S
Close	Close the Repository	Ctrl+W	⌘W
Exit*	Exit the Application	Alt+X	












Record

Menu Item	Description	Windows/Linux Short Cut Key	Mac OS X Short Cut Key
Recent Records	Display a list of recently opened Records		
 Add...	Add a new Record to the Repository	Alt+A	⌘A
 Modify...	Modify the currently selected Record	Alt+M	⌘M
 Delete	Delete the currently selected Record	DELETE	⌘DEL
 Add to Favorites	Add the Record to the list of Favorites		
 Remove from Favorites	Remove the Record from the list of Favorites		
 Search...	Search for a Record	Ctrl+F	⌘F





Categories

Menu Item	Description	Short Cut Key
 Add Category...	Add a new Custom Category to the Repository	
 Manage Categories...	Manage all Custom Categories	

Tools















Menu Item	Description
 Options...*	Open the Options screen
 Password Generator...	Open the Password Generator tool
 Message Digest Calculator...	Open the Message Digest Calculator tool
 Encryption...	Open the Encryption tool
 File Shredder	Open the File Shredder tool
 Import...	Import data into PWMinder
 Export...	Export the Repository to various formats.
 Dropbox Integration	Set up integration with Dropbox
 Clear Dropbox Cache	Delete all of the locally cached Dropbox Repository files
 Purchase Registration Code...	Purchase Registration Code using Internal Registration module
 Activate Software...	Manually enter Activation Code

Help



Menu Item	Description	Short Cut Key
 User Guide	Display the User Guide	F1
 Check for Updates...	Check for an updated version of PWMinder	
 View Log	View the Applications Logs	
 About*	Display About Information	

* For Mac OS X, these items are in the Application Menu (see above).

21.3. Tool Bar

Icon	Description
	Create a new Repository
	Open a Repository from a Repository file
	Open a Repository file stored on Dropbox
	Refresh data from Dropbox
	Cancel Search (only displayed when in Search mode)
	Add a new Record to the Repository
	Modify the currently selected Record
	Delete the currently selected Record
	Search for a Record
	Manage custom Categories
	Add a new custom Category
	Open the Options screen
	Import Data into the Repository
	Export the Repository



	Display the About information, i.e. Information about the application
	Exit the application



22. Trouble Shooting

22.1. Support

If any problems occur while running PWMinder, please go to <http://www.ewert-technologies.ca/home/support.html>. When submitting a support request, please include the PWMinder *About* information (see [Section 18.4](#))

22.2. File Locking on Mac

In addition to file permissions, on Mac computers, files can be set to Locked. It also seems like when a Read-Only file is copied from Windows to Mac, it becomes locked. Locked Repository files cannot be saved in PWMinder so all Repository files should be unlocked prior to using them (e.g. after copying from a Windows computer).

To unlock a file, select the file in Finder, Right-Click and select Info. In the 'General' pane, un-check the checkbox to unlock the file.

If a Repository is opened, and its file is locked, a warning will be displayed.

22.3. Log File

PWMinder writes all error and other message to a log file. This information can be useful when troubleshooting problems. The log file can be viewed by clicking on *Help->View Log*.

The log file is written to the following location:

```
<user> home>/ .pwminder/log/PWMinder.log
```

On Windows XP this would be:

```
C:\Documents and Settings\<user>\.pwminder\log\PWMinder.log
```

On Windows Vista this would be:

```
C:\Users\<user>\.pwminder\log\PWMinder.log
```

On Mac OS X this would be:

```
/Users/<user>/ .pwminder/log/PWMinder.log
```

NOTE: the `.pwminder` folder may be hidden on some systems, to view hidden files/folder perform the following:

Windows:

In Windows Explorer got to Tools->Folder Options->View and then select *Show hidden files and folders*

Mac OS X:

At the command prompt enter:

```
defaults write com.apple.Finder AppleShowAllFiles TRUE (This changes Finder)  
killall Finder (restarts Finder)
```



Alternatively, use an application like Houdini or InVisible to display hidden folders.

Log Levels

By default, only ERROR level log messages are written to the log file. The logging level can be changed on the Options screen (see [Section 11.5](#)). The following log levels can be set:

Level	Description
INFO	The <code>INFO</code> level designates informational messages that highlight the progress of the application at coarse-grained level.
WARN	The <code>WARN</code> level designates potentially harmful situations.
ERROR	The <code>ERROR</code> level designates error events that might still allow the application to continue running
FATAL	The <code>FATAL</code> level designates very severe error events that will presumably lead the application to abort.

22.4. Known Issues

For any current Know Issues, and their work-arounds, please refer to the Release Notes available on the PWMinder Home Page: <http://www.ewert-technologies.ca/home/products/pwminder-home.html>.



23. Appendix 1 - Password Creation Tips

When creating passwords for website, bank sites, etc, try to make the password as secure as possible. Keep the following tips in mind to make it more difficult for your passwords to be cracked or guessed.

Do's

1. Use a password with at least 8 to 10 characters. The more characters in the password, the more combinations there are, making it more difficult to crack it. For example, if a password only uses upper case letters, a four character password would have approximately 450,000 combinations, if it had six characters there would be approximately 310,000,000 combinations, and if you were to use 8 characters, there would be approximately 210,000,000,000 combinations.
2. Use a combination of numbers and letters and use a mix of upper and lower case letters. This also increases the number of combinations. For example, if a password only uses upper case letters, a four character password would have approximately 450,000 combinations, if it used both upper and lower case letters there would be approximately 7,000,000 combinations, and if numbers were included as well, then there would be approximately 15,000,000 combinations.
3. Add a special character. This again increases the number of combinations, and reduces the risk of a dictionary attack.
4. Change your password every few months. This way, if your password has been cracked it will eventually be changed.
5. To create passwords that you can remember, use a phrase you can remember, and then take the first letter of each word, then append a number to it. For example, the phrase: *This is a password phrase.* could give you a password like *Tiapp123*.

Don'ts

1. Don't write your passwords down, or store them unencrypted on your computer.
2. Don't use a word or name that is personally associated with you, such as family member's name, birth month, city born in, etc.
3. Don't use common words. These are easily cracked using a dictionary attack, where hackers will attempt to find your password by trying all words from a common list in a dictionary.
4. Don't use the same password for all of your accounts and websites. If one of your passwords were to be cracked then the hacker would immediately know the password for all of your accounts and websites.

24. Appendix 2 – Export

24.1. XML Export

The following is an example of an xml export in grouped mode, showing passwords in plain text:

```
<?xml version="1.0" encoding="UTF-8"?>
<REPOSITORY version="2.0" name="Demo" description="A demo repository for display" filename="Demo.pwm"
created="2009-02-13 09:59:29 PST" exported="2009-07-20 13:44:45 PDT">
  <CATEGORIES>
    <CATEGORY>
      <NAME>Alarm System</NAME>
      <DESCRIPTION>Passcodes for alarm systems.</DESCRIPTION>
      <RECORDS>
        <RECORD>
          <NAME>home</NAME>
          <DESCRIPTION>Home alarm system</DESCRIPTION>
          <LOGIN>abc</LOGIN>
          <PASSWORD>345</PASSWORD>
          <ACCOUNT_NUMBER>fadtt</ACCOUNT_NUMBER>
          <NOTES />
          <URL>http://www.alarm.com</URL>
          <EMAIL />
          <SECURITY_QUESTION />
          <SECURITY_QUESTION_ANSWER />
          <EXPIRY>September 1, 2009</EXPIRY>
        </RECORD>
        <RECORD>
          <NAME>Office</NAME>
          <DESCRIPTION>Office alarm</DESCRIPTION>
          <LOGIN>xyz</LOGIN>
          <PASSWORD>987</PASSWORD>
          <ACCOUNT_NUMBER>123-985</ACCOUNT_NUMBER>
          <NOTES />
          <URL>http://www.alarm.com</URL>
          <EMAIL />
          <SECURITY_QUESTION />
          <SECURITY_QUESTION_ANSWER />
          <EXPIRY>No Expiry</EXPIRY>
        </RECORD>
      </RECORDS>
    </CATEGORY>
    <CATEGORY>
      <NAME>Bank Account</NAME>
      <DESCRIPTION>Passwords for Bank Accounts.</DESCRIPTION>
      <RECORDS>
        <RECORD>
          <NAME>Chequing</NAME>
          <DESCRIPTION>Chequing Account</DESCRIPTION>
          <LOGIN>user</LOGIN>
          <PASSWORD>pw</PASSWORD>
          <ACCOUNT_NUMBER>123-1234-123</ACCOUNT_NUMBER>
          <NOTES />
          <URL />
          <EMAIL />
          <SECURITY_QUESTION />
          <SECURITY_QUESTION_ANSWER />
          <EXPIRY>No Expiry</EXPIRY>
        </RECORD>
        <RECORD>
          <NAME>Savings</NAME>
          <DESCRIPTION>Savings Account.</DESCRIPTION>
          <LOGIN>abc</LOGIN>
```



```
<PASSWORD>123</PASSWORD>
<ACCOUNT_NUMBER>987</ACCOUNT_NUMBER>
<NOTES />
<URL>http://www.bank.com</URL>
<EMAIL>my@domain.com</EMAIL>
<SECURITY_QUESTION>What is your favourite colour?</SECURITY_QUESTION>
<SECURITY_QUESTION_ANSWER>Black</SECURITY_QUESTION_ANSWER>
<EXPIRY>March 26, 2009</EXPIRY>
</RECORD>
</RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Bank Web Sites</NAME>
  <DESCRIPTION>Banking Web Sites.</DESCRIPTION>
  <RECORDS>
    <RECORD>
      <NAME>BigBank</NAME>
      <DESCRIPTION>Bank site</DESCRIPTION>
      <LOGIN>user</LOGIN>
      <PASSWORD>Nbt48_7C</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.bigBank.com</URL>
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
  </RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Cell Phone</NAME>
  <DESCRIPTION>Cell phone PIN</DESCRIPTION>
  <RECORDS />
</CATEGORY>
<CATEGORY>
  <NAME>Computer Account</NAME>
  <DESCRIPTION>Passwords used to log in to computers or networks.</DESCRIPTION>
  <RECORDS>
    <RECORD>
      <NAME>Linux</NAME>
      <DESCRIPTION>My Linux account</DESCRIPTION>
      <LOGIN>tux</LOGIN>
      <PASSWORD>penguin</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL />
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>July 1, 2009</EXPIRY>
    </RECORD>
    <RECORD>
      <NAME>Windows Vista</NAME>
      <DESCRIPTION>Login for Windows Vista account</DESCRIPTION>
      <LOGIN>jdoe</LOGIN>
      <PASSWORD>password</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL />
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>July 1, 2009</EXPIRY>
    </RECORD>
  </RECORDS>
</CATEGORY>
```



```

    <NAME>Windows XP</NAME>
    <DESCRIPTION>My Windows XP Account</DESCRIPTION>
    <LOGIN>user</LOGIN>
    <PASSWORD>pw</PASSWORD>
    <ACCOUNT_NUMBER />
    <NOTES />
    <URL />
    <EMAIL />
    <SECURITY_QUESTION />
    <SECURITY_QUESTION_ANSWER />
    <EXPIRY>July 1, 2009</EXPIRY>
  </RECORD>
</RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Credit Card</NAME>
  <DESCRIPTION>Credit Card information</DESCRIPTION>
  <RECORDS />
</CATEGORY>
<CATEGORY>
  <NAME>Email Account</NAME>
  <DESCRIPTION>Passwords for email accounts.</DESCRIPTION>
  <RECORDS>
    <RECORD>
      <NAME>gmail</NAME>
      <DESCRIPTION>My gmail account</DESCRIPTION>
      <LOGIN>user@gmail.com</LOGIN>
      <PASSWORD>12345</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.gmail.com</URL>
      <EMAIL>user@gmail.com</EMAIL>
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
    <RECORD>
      <NAME>hotmail</NAME>
      <DESCRIPTION>hotmail account</DESCRIPTION>
      <LOGIN>me@hotmail.com</LOGIN>
      <PASSWORD>_Fe459eu</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL />
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
  </RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Shaw</NAME>
  <DESCRIPTION>Shaw webmail</DESCRIPTION>
  <LOGIN>vtewert</LOGIN>
  <PASSWORD>squeah89</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL>https://webmail.shaw.ca/</URL>
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
</RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Misc</NAME>

```



```
<DESCRIPTION>Miscellaneous logins and passwords.</DESCRIPTION>
<RECORDS>
  <RECORD>
    <NAME>other</NAME>
    <DESCRIPTION />
    <LOGIN>login</LOGIN>
    <PASSWORD>password</PASSWORD>
    <ACCOUNT_NUMBER />
    <NOTES>Added multiline notes</NOTES>
    <URL />
    <EMAIL />
    <SECURITY_QUESTION />
    <SECURITY_QUESTION_ANSWER />
    <EXPIRY>No Expiry</EXPIRY>
  </RECORD>
</RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Software Account</NAME>
  <DESCRIPTION>Passwords used to log in to software applications.</DESCRIPTION>
  <RECORDS>
    <RECORD>
      <NAME>PwMinder</NAME>
      <DESCRIPTION>PwMinder software</DESCRIPTION>
      <LOGIN>none</LOGIN>
      <PASSWORD>none</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL />
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
  </RECORDS>
</CATEGORY>
<CATEGORY>
  <NAME>Web Site</NAME>
  <DESCRIPTION>Passwords used to log in to web sites.</DESCRIPTION>
  <RECORDS>
    <RECORD>
      <NAME>Ewert-Technologies</NAME>
      <DESCRIPTION>Ewert Technologies home page.</DESCRIPTION>
      <LOGIN>abc</LOGIN>
      <PASSWORD>123</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.ewert-technologies.ca</URL>
      <EMAIL>info@ewert-technologies.ca</EMAIL>
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>February 12, 2010</EXPIRY>
    </RECORD>
    <RECORD>
      <NAME>yahoo.com</NAME>
      <DESCRIPTION>Yahoo.com user</DESCRIPTION>
      <LOGIN>me@yahoo.com</LOGIN>
      <PASSWORD>password</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.yahoo.com</URL>
      <EMAIL>me@yahoo.com</EMAIL>
      <SECURITY_QUESTION>What is your favourite colour?</SECURITY_QUESTION>
      <SECURITY_QUESTION_ANSWER>Blue</SECURITY_QUESTION_ANSWER>
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
  </RECORDS>
</CATEGORY>
```



```
</RECORDS>
</CATEGORY>
</CATEGORIES>
</REPOSITORY>
```

The following is an example of an xml export in non-grouped mode:

```
<?xml version="1.0" encoding="UTF-8"?>
<REPOSITORY version="2.0" name="Demo" description="A demo repository for display" filename="Demo.pwm"
created="2009-02-13 09:59:29 PST" exported="2009-07-20 13:41:48 PDT">
  <RECORDS>
    <RECORD>
      <CATEGORY_NAME>Bank Web Sites</CATEGORY_NAME>
      <CATEGORY_DESCRIPTION>Banking Web Sites.</CATEGORY_DESCRIPTION>
      <NAME>BigBank</NAME>
      <DESCRIPTION>Bank site</DESCRIPTION>
      <LOGIN>user</LOGIN>
      <PASSWORD>*****</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.bigBank.com</URL>
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
    <RECORD>
      <CATEGORY_NAME>Bank Account</CATEGORY_NAME>
      <CATEGORY_DESCRIPTION>Passwords for Bank Accounts.</CATEGORY_DESCRIPTION>
      <NAME>Chequing</NAME>
      <DESCRIPTION>Chequing Account</DESCRIPTION>
      <LOGIN>user</LOGIN>
      <PASSWORD>*****</PASSWORD>
      <ACCOUNT_NUMBER>123-1234-123</ACCOUNT_NUMBER>
      <NOTES />
      <URL />
      <EMAIL />
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>No Expiry</EXPIRY>
    </RECORD>
    <RECORD>
      <CATEGORY_NAME>Web Site</CATEGORY_NAME>
      <CATEGORY_DESCRIPTION>Passwords used to log in to web sites.</CATEGORY_DESCRIPTION>
      <NAME>Ewert-Technologies</NAME>
      <DESCRIPTION>Ewert Technologies home page.</DESCRIPTION>
      <LOGIN>abc</LOGIN>
      <PASSWORD>*****</PASSWORD>
      <ACCOUNT_NUMBER />
      <NOTES />
      <URL>http://www.ewert-technologies.ca</URL>
      <EMAIL>info@ewert-technologies.ca</EMAIL>
      <SECURITY_QUESTION />
      <SECURITY_QUESTION_ANSWER />
      <EXPIRY>February 12, 2010</EXPIRY>
    </RECORD>
    <RECORD>
      <CATEGORY_NAME>Email Account</CATEGORY_NAME>
      <CATEGORY_DESCRIPTION>Passwords for email accounts.</CATEGORY_DESCRIPTION>
      <NAME>gmail</NAME>
      <DESCRIPTION>My gmail account</DESCRIPTION>
      <LOGIN>user@gmail.com</LOGIN>
      <PASSWORD>*****</PASSWORD>
      <ACCOUNT_NUMBER />
    </RECORD>
  </RECORDS>
</REPOSITORY>
```




```
<NOTES />
<URL>http://www.gmail.com</URL>
<EMAIL>user@gmail.com</EMAIL>
<SECURITY_QUESTION />
<SECURITY_QUESTION_ANSWER />
<EXPIRY>No Expiry</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Alarm System</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passcodes for alarm systems.</CATEGORY_DESCRIPTION>
  <NAME>home</NAME>
  <DESCRIPTION>Home alarm system</DESCRIPTION>
  <LOGIN>abc</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER>fadtt</ACCOUNT_NUMBER>
  <NOTES />
  <URL>http://www.alarm.com</URL>
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>September 1, 2009</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Email Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords for email accounts.</CATEGORY_DESCRIPTION>
  <NAME>hotmail</NAME>
  <DESCRIPTION>hotmail account</DESCRIPTION>
  <LOGIN>me@hotmail.com</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL />
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Computer Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords used to log in to computers or networks.</CATEGORY_DESCRIPTION>
  <NAME>Linux</NAME>
  <DESCRIPTION>My Linux account</DESCRIPTION>
  <LOGIN>tux</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL />
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>July 1, 2009</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Alarm System</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passcodes for alarm systems.</CATEGORY_DESCRIPTION>
  <NAME>Office</NAME>
  <DESCRIPTION>Office alarm</DESCRIPTION>
  <LOGIN>xyz</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER>123-985</ACCOUNT_NUMBER>
  <NOTES />
  <URL>http://www.alarm.com</URL>
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
```



```
</RECORD>
<RECORD>
  <CATEGORY_NAME>Misc</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Miscellaneous logins and passwords.</CATEGORY_DESCRIPTION>
  <NAME>other</NAME>
  <DESCRIPTION />
  <LOGIN>login</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES>Added multiline notes</NOTES>
  <URL />
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Software Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords used to log in to software applications.</CATEGORY_DESCRIPTION>
  <NAME>PwMinder</NAME>
  <DESCRIPTION>PwMinder software</DESCRIPTION>
  <LOGIN>none</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL />
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Bank Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords for Bank Accounts.</CATEGORY_DESCRIPTION>
  <NAME>Savings</NAME>
  <DESCRIPTION>Savings Account.</DESCRIPTION>
  <LOGIN>abc</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER>987</ACCOUNT_NUMBER>
  <NOTES />
  <URL>http://www.bank.com</URL>
  <EMAIL>my@domain.com</EMAIL>
  <SECURITY_QUESTION>What is your favourite colour?</SECURITY_QUESTION>
  <SECURITY_QUESTION_ANSWER>Black</SECURITY_QUESTION_ANSWER>
  <EXPIRY>March 26, 2009</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Email Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords for email accounts.</CATEGORY_DESCRIPTION>
  <NAME>Shaw</NAME>
  <DESCRIPTION>Shaw webmail</DESCRIPTION>
  <LOGIN>vtewert</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL>https://webmail.shaw.ca/</URL>
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Computer Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords used to log in to computers or networks.</CATEGORY_DESCRIPTION>
  <NAME>Windows Vista</NAME>
  <DESCRIPTION>Login for Windows Vista account</DESCRIPTION>
```



```
<LOGIN>jdoe</LOGIN>
<PASSWORD>*****</PASSWORD>
<ACCOUNT_NUMBER />
<NOTES />
<URL />
<EMAIL />
<SECURITY_QUESTION />
<SECURITY_QUESTION_ANSWER />
<EXPIRY>July 1, 2009</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Computer Account</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords used to log in to computers or networks.</CATEGORY_DESCRIPTION>
  <NAME>Windows XP</NAME>
  <DESCRIPTION>My Windows XP Account</DESCRIPTION>
  <LOGIN>user</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL />
  <EMAIL />
  <SECURITY_QUESTION />
  <SECURITY_QUESTION_ANSWER />
  <EXPIRY>July 1, 2009</EXPIRY>
</RECORD>
<RECORD>
  <CATEGORY_NAME>Web Site</CATEGORY_NAME>
  <CATEGORY_DESCRIPTION>Passwords used to log in to web sites.</CATEGORY_DESCRIPTION>
  <NAME>yahoo.com</NAME>
  <DESCRIPTION>Yahoo.com user</DESCRIPTION>
  <LOGIN>me@yahoo.com</LOGIN>
  <PASSWORD>*****</PASSWORD>
  <ACCOUNT_NUMBER />
  <NOTES />
  <URL>http://www.yahoo.com</URL>
  <EMAIL>me@yahoo.com</EMAIL>
  <SECURITY_QUESTION>What is your favourite colour?</SECURITY_QUESTION>
  <SECURITY_QUESTION_ANSWER>Blue</SECURITY_QUESTION_ANSWER>
  <EXPIRY>No Expiry</EXPIRY>
</RECORD>
</RECORDS>
</REPOSITORY>
```



25. Appendix 4 - License Agreement

The PWMinder License Agree can be found in <Install Directory>/PWMinder/docs/license.txt

It is also reproduced here:



SOFTWARE EVALUATION LICENSE

BY USING THIS SOFTWARE, YOU AGREE TO THE FOLLOWING TERMS AND CONDITIONS:

The version of PwMinder you are installing is trialware. You are hereby granted a license to use this software for a period of 30 days. After that time, you are required to activate this software and pay the applicable fee, or else discontinue using it. An Activation Code may be used on up to two computers within the same household, for example the same Activation Code may be used on your Desktop Computer and Laptop.

You are allowed to make copies of this program and distribute it to third parties, provided this software is not distributed for profit. If you distribute this program, you agree to distribute this license, along with this software. You are not allowed to distribute your Activation Code to others, outside of your household. You are not allowed to bundle this program with other products without prior written permission from Ewert Technologies (info@ewert-technologies.ca).

1. Ownership of Software

As licensee, you own the media upon which this software is recorded or distributed and are entitled to use this software, but all rights in, title to and ownership of the original software and all subsequent copies shall be retained solely by Ewert Technologies (www.ewert-technologies.ca). The granting of this license does not constitute a sale of this software or any copy thereof. You are not allowed to make any modifications to, or to create derivative works from any of the files that are used in or that accompany this software.

2. Limited Warranty

This software is provided "as is" without warranty of any kind, either expressed or implied, but not limited to, the implied warranties or conditions of merchantability and fitness for a particular purpose. The user must assume the entire risk as to the quality and performance of this software. Should this software prove defective, the user assumes the entire cost of all necessary servicing, repair, or correction. Any liability of the seller will be limited exclusively to product replacement or refund of purchase price. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

3. Limitation of Liability

In no event shall Ewert Technologies or any of its authorized dealers or suppliers be liable to you or any other party for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other incidental or consequential damages) arising out of the use of or inability to use this software, even if Ewert Technologies has been advised of the possibility of such damages. Some jurisdictions do not allow the limitation or exclusion of liability for incidental or consequential damages so the above limitation or exclusion may not apply to you.

While all attempts have been made to make the encrypted repository file as secure as possible, any encryption method can be broken, especially if the password is short and/or easily guessable. Please ensure that the password(s) for your repository(ies) is/are at least 10 characters long, and contains upper case and/or lower case characters, and/or numbers. Ewert Technologies accepts no responsibility for repository files that get "hacked".



In addition, ensure that the password(s) used for repositories are remembered, as there is no way to recover a forgotten password, and Ewert Technologies accepts no responsibility for repositories that can't be opened due to forgotten passwords.

4. General

You acknowledge that you have read this agreement, understand it, and that by making any use of this software you agree to be bound by these terms and conditions. You further agree that this constitutes the entire agreement between you and Ewert Technologies, which supersedes any prior verbal or written agreement with respect to the matters set out herein. You understand and agree that you have no rights in or to the software except the license specifically granted in this agreement.

If you have any questions about this agreement, contact Ewert Technologies at info@ewert-technologies.ca.